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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2322646789
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID :	5380		
Contact Name Garrett Green			Contact Te	Contact Telephone 575-200-0729		
Contact email garrett.green@exxonmobil.com			Incident #	(assigned by OCD)	
			treet, Carlsbad, Ne	w Mexico, 88220		
			Location	of Release So	ource	
Latitude 32	18436			Longitude _	-103.87523	
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)	
Site Name	Poker Lake	Unit 301H		Site Type P	Production Wel	1
Date Release	Discovered	07/31/2023		API# (if app	olicable)	
	T		1 -			
Unit Letter	Section	Township	Range	Coun		4
M	27	24S	30E	Edd	У	
Surface Owne	r: 🗌 State	▼ Federal □ Ti	ribal 🔲 Private (A	Name:)
			·			
			Nature and	l Volume of l	Release	
				calculations or specific		e volumes provided below)
▼ Crude Oil Volume Released (bbls) 0.96			Volume Reco	overed (bbls) 0.23		
roduced ×	Water	Volume Release	ed (bbls) 5.41		Volume Reco	overed (bbls) 1.27
			tion of total dissolv		Yes N	No
in the produced water >10,000 mg/l? Condensate Volume Released (bbls)		/1?	Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
		,		, , , , , , , , , , , , , , , , , , ,		
Cause of Rel	ease Externs	l correction course	d a flowling to rela	asa fluids to groups	d All froe fluid	ds were recovered. A third-party
			ned for remediation	•	u. An nee nun	as were recovered. A tillid-party

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Incident ID	NAPP2322646789
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Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
, ,		
Yes X No		
If VEC was immediate n	otion given to the OCD? By whom? To wi	nom? When and by what means (phone, email, etc)?
N/A	once given to the OCD? By whom? To wi	ion? when and by what means (phone, email, etc)?
1,412		
	Initial R	esponse
The responsible	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
➤ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
NA		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a three	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	1 a C-141 report does not refleve the operator of	responsibility for compliance with any other federal, state, or focal laws
Printed Name: Garrett G	reen	Title: SSHE Coordinator
Signature:	At Sur	Date: 8/14/2023
email: garrett.green@exx	konmobil.com	Telephone: 575-200-0729
eman.		Telephone.
OCD Only		
Received by:		Date:

Location:	Poker Lake Unit 301	
Spill Date:	7/31/2023	
	Area 1	
Approximate A	rea =	625.00 sq. ft.
Average Satura	tion (or depth) of spill =	3.50 inches
Average Porosi	ty Factor =	0.15
	VOLUME OF LEAK	
Total Crude Oil	=	0.96 bbls
Total Produced	Water =	5.41 bbls
	TOTAL VOLUME OF LEAK	
Total Crude Oil	=	0.96 bbls
Total Produced	Water =	5.41 bbls
	TOTAL VOLUME RECOVERED	
Total Crude Oil	=	0.23 bbls
Total Produced	Water =	1.27 bbls

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ncident ID	NAPP2322646789
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Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	>110 (ft bgs)	
Did this release impact groundwater or surface water?	Yes x No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗓 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No	
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗓 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗓 No	
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.		

Characterization Report Checklist: Each of the following items must be included in the report.
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Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
x Field data
$\overline{\mathbf{x}}$ Data table of soil contaminant concentration data
$\overline{\mathbb{L}}$ Depth to water determination
$ \overline{x} $ Determination of water sources and significant watercourses within $\frac{1}{2}$ -mile of the lateral extents of the release
Boring or excavation logs
Nhotographs including date and GIS information
Topographic/Aerial maps
Laboratory data including chain of custody

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

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Garrett Green Signature: garrett.green@exxonmobil.com	Title: SSHE Coordinator Date:	
OCD Only Received by: Shelly Wells	Date: <u>10/26/2023</u>	

Zoho Sign Document ID: 316041F4-C6N3GTXAF0145DISFZ5KS7-FQ9HJLXEAZF51JF-EYHC Form C-141 State of New Mexico

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Incident ID NAPP2322646789
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
X A scaled site and sampling diagram as described in 19.15.29.	11 NMAC	
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office	
X Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)	
X Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: SSHE Coordinator	
OCD Only		
Received by: Shelly Wells	Date: _10/26/2023	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	



October 25, 2023

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

Re: Closure Request Poker Lake Unit 301H

Incident Number NAPP2322646789

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Poker Lake Unit 301H (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2322646789.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 27, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.18436°, -103.87523°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management.

On July 31, 2023, corrosion of a surface flow line resulted in the release of 0.96 barrels (bbls) of crude oil and 5.41 bbls of produced water onto the surrounding pasture. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 0.23 bbls of crude oil and 1.27 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on August 14, 2023. The release was assigned Incident Number NAPP2322646789.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well/soil boring with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring C-04474, located approximately 0.27 miles southwest of the Site. The soil boring was drilled during September

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc. Closure Request Poker Lake Unit 301H

2020 to a total depth of 110 feet bgs, and no groundwater was encountered. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES

On August 30, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS03 were collected within the visible release extent at a depth of 0.5 feet bgs to assess surficial soil within the release. Assessment soil samples SS04 through SS07 were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. The 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 soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated TPH and chloride concentrations exceeded the Site Closure Criteria and/or reclamation requirements. Laboratory analytical results for assessment samples SS06 through SS08, collected around the release extent, were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release to the north, south, and west. Laboratory analytical results for assessment sample SS05, collected east of the visible release extent, exceeded the reclamation requirement for chloride. Based on the laboratory analytical results, additional assessment



XTO Energy, Inc. Closure Request Poker Lake Unit 301H

activities were warranted to delineate the vertical extent of the release. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

DELINEATION ACTIVITIES

On September 25, 2023, Ensolum personnel returned to the Site to delineate the vertical extent of impacted soil within the release extent. Potholes PH01 through PH03 were advanced via backhoe at the location of assessment samples SS01 through SS03. The potholes were advanced to depths ranging from 2 feet to 6 feet bgs. Soil from the potholes was field screened at 1-foot intervals for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from the potholes at depths ranging from 2 feet to 6 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures described above. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Laboratory analytical results and/or field screening results for the delineation soil samples collected from potholes PH01 through PH03 indicated TPH and/or chloride concentrations exceeded the reclamation requirements at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results for the final depth delineation sample from each pothole indicate all COC concentrations are compliant with the Site Closure Criteria and reclamation requirements, for samples collected in the top four feet. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D. Based on visible staining in the release area and laboratory analytical results for the assessment and delineation soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES

Between September 25, 2023, and September 27, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil in the areas of assessment samples SS01 through SS03, and SS05 and potholes PH01 through PH03. Excavation activities were completed utilizing a hydrovac, backhoe, and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 4 feet bgs.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS08 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS08 and excavation sidewall samples SW01 through SW04 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements for samples collected in the top four feet. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

The excavation area measured approximately 1,380 square feet. A total of approximately 160 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 disposal facility in Carlsbad, New Mexico.



XTO Energy, Inc. Closure Request Poker Lake Unit 301H

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the July 31, 2023, release of crude oil and produced water. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Additionally, the release was laterally and delineated to below the most stringent Table I Closure Criteria by assessment samples SS04, SS06, and SS07 and sidewall samples SW01 through SW04. Based on the soil sample laboratory analytical results, no further remediation is required. XTO will backfill the excavation with topsoil purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be seeded with a BLM-approved seed mixture.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater is greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes the remedial actions completed at the Site are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2322646789. NMOCD notifications are included in Appendix E.

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

ashley L. ager

Program Director

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

Sincerely, **Ensolum**, **LLC**

Aimee Cole

Senior Managing Scientist

cc: Garrett Green, XTO

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2
Figure 3
Table 1
Appendix A
Appendix B

Delineation Soil Sample Locations
Excavation Soil Sample Locations
Soil Sample Analytical Results
Referenced Well Records
Lithologic / Soil Sampling Logs

Appendix C Photographic Log

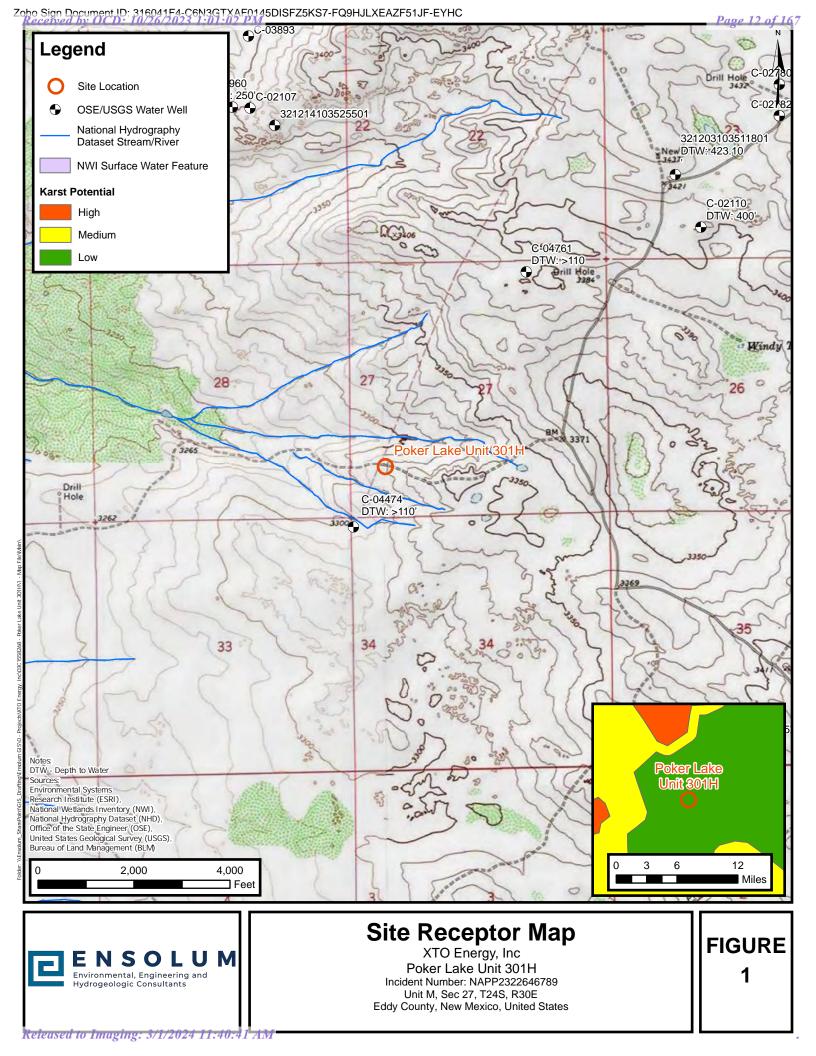
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications





FIGURES





Delineation Soil Sample Locations

XTO Energy, Inc. Poker Lake Unit 301H Incident Number: NAPP2322646789 Unit M, Sec 27, T24S, R30E Eddy County, New Mexico, United States **FIGURE** 2



Excavation Soil Sample Locations

XTO Energy, Inc. Poker Lake Unit 301H Incident Number: NAPP2322646789 Unit M, Sec 27, T24S, R30E Eddy County, New Mexico, United States **FIGURE** 3

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TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 301H XTO Energy, Inc. Eddy County, New Mexico

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 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000		
	Assessment and Delineation Soil Samples											
\$\$01*	08/30/2023	0.5	0.106	1.05	<50.1	3,290	237	3,290	3,530	2,750		
PH01*	09/27/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	139		
SS02*	08/30/2023	0.5	<0.0202	2.43	128	2,850	222	2,980	3,200	1,030		
PH02*	09/25/2023	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	1,100		
PH02A	09/25/2023	6	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	277		
\$\$03*	08/30/2023	0.5	<0.0199	<0.0398	<50.5	593	66.5	593	660	7,290		
PH03*	09/25/2023	4	<0.00198	0.0482	<50.3	300	<50.3	300	300	5,610		
PH03A	09/25/2023	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,480		
SS04*	08/30/2023	0.5	<0.00198	<0.00396	<49.8	72.1	<49.8	72.1	72.1	515		
\$\$05*	08/30/2023	0.5	<0.00201	<0.00402	<49.6	55.1	<49.6	55.1	55.1	683		
SS06*	08/30/2023	0.5	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	529		
SS07*	08/30/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	255		
				Excava	tion Floor Soil	Samples						
FS01	09/26/2023	4	<0.00199	<0.00398	<49.6	144	<49.6	144	144	871		
FS02	09/26/2023	4	<0.00198	<0.00396	<50.4	169	<50.4	169	169	942		
FS03*	09/26/2023	1	<0.00199	<0.00398	<50.1	93	<50.1	93	93	211		
FS04*	09/26/2023	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	171		
FS05*	09/27/2023	2	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	117		
FS06*	09/27/2023	2	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	69.3		
FS07	09/27/2023	4	<0.00202	<0.00404	<50.5	<50.5	<50.5	<50.5	<50.5	1,320		
FS08	09/27/2023	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	122		

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit 301H 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	
Excavation Sidewall Soil Samples										
SW01*	09/26/2023	0 - 1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	111
SW02*	09/26/2023	0 - 4	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	122
SW03*	09/27/2023	0 - 2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	114
SW04*	09/27/2023	0 - 4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	60.4

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Grey text indicates soil sample removed during excavation activities

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.

Ensolum 2 of 2



APPENDIX A

Referenced Well Records

PAGE 1 OF 2

WELL TAG ID NO.

35E 0/1 00T 8 2020 #3/34



									·			
	OSE POD NO)		WELL TAG ID NO.			OSE FILE NO	S).			
NO	POD1 (BH-01) n/a							C-4474				
CAT	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)							PHONE (OPTIONAL)				
10							CT 4 TT					
ELL	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.							CITY Midland		STATE TX	79707	ZIP
M		<u> </u>		26								
NA	WELL LOCATIO	NT		GREES 32°	MINUTES 10'	SECONI 51.44		* ACCURACY REQUIRED: ONE TENTH OF A SECOND				
RAI	(FROM GE	25)	TITUDE .	-103°	52'	38.65		4 DAMES A PROVINCE WAS SA				
GENERAL AND WELL LOCATION	DESCRIPTION		NGITUDE	STREET ADDR	ESS AND COMMON			S (SECTION TO	WNSHIIP RANGE) WH	FRE AVA	II ARI F	
1. G	DESCRIPTION OF THE PROPERTY OF	ON KLEETIN	VEDE EGGIIION 10					0 (02011011, 10	, , , , , , , , , , , , , , , , , , ,			
	1											
	LICENSE NO		NAME OF LICENSED		ackie D. Atkins				NAME OF WELL DRI Atkins Eng		OMPANY Associates, I	ıc.
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF CO	MPLETED WELL (FT)) [BORE HOI	LE DEPTH (FT)	DEPTH WATER FIRS	T ENCOL	INTERED (FT)	
	09/10/20 09/10/20 temporary well material 110 n/a											
	COMPLETED WELL IS: ARTESIAN OF DRY HOLE SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL (FT)								LL (FT)			
NO												
2. DRILLING & CASING INFORMATION	DRILLING F	LUID:	✓ AIR	MUD	ADDITIVE						<u>.</u> .	
ORW	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OT					OTHE	R - SPECIFY: Hollow Stem Auger					
INF	DEPTH (feet bgl) BORE HOLE FROM TO DIAM		CASING MATERIAL AND/OR GRADE		CA	SING	CASING	CASI	NG WALL	SLOT		
ING			1	(include	each casing string, a	and		NECTION YPE	INSIDE DIAM.		CKNESS nches)	SIZE (inches)
CAS	0	48	(inches)		ections of screen) (add coupling diameter) Boring- HSA -		(inches)	(1				
30	48	110	±4.5		ring- Air Rotary				<u></u>			
TIN										•		
KIL												
2. I								,				
					 							
				-								
	ДЕРТИ	(feet bgl)	BODE HOLE	7.70	ST ANNULAR SEA	AT MAT	EDIAT A	ND	AMOUNT		Mento	D OF
AL	FROM	TO	BORE HOLE DIAM. (inches)	1	VEL PACK SIZE-I				(cubic feet)		METHO! PLACEM	
ANNULAR MATERIAL					· · · · · · · · · · · · · · · · · · ·					<u> </u>		
MAT												
AR !												
NOL												
			-									
6,										_		
				ı								
	OSE INTER		1474		POD NO.		1	TRN I	WELL RECORD &	410	v ersion 06/30	J/ I /)

LOCATION

			I				
	DEPTH (i	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	' -	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	30	30	Sand, Medium, poorly-graded with silt, no plasticity, Red-Brown		Y ✔N	
	30	45	15	Clayey Sand, Medium, low plasticity, Dark Red-Brown		Y √N	
	45	50	5	Sand, Medium, poorly-graded, compacted, no plasticity, Brown		Y ✓N	
	50	58	8	Caliche, well cemented with medium sand matrix. Brown		Y ✓N	
	58	73	15	Clayey Sand, Medium, Moderate plasticity, increasing clay, Brown		Y ✓N	
4	73	78	5	Caliche, with Sandy clay layering, mod plasticity, poorly-grated sand, Wh	nite	Y √N	
HYDROGEOLOGIC LOG OF WELL	78	83	5	Sand, Medium, poorly-graded, no plasticity, Light Brown		Y ✓N	
OF	83	88	5	Clayey Sand, Medium, Moderate plasticity, decreasing clay, Red Brown	n	Y ✓N	
503	88	110	22	Sand, Fine , poorly-graded, no plasticity , Brown		Y ✓N	
[2]						Y N	
ğ						Y N	
GEO						Y N	
RO						Y N	
HAD						Y N	
4						Y N	
						Y N	
						Y N	
						Y N	
						Y N	
						Y N	
						Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL E	STIMATED	
	PUMI	P DA	IR LIFT	BAILER OTHER - SPECIFY:	WELL Y	TIELD (gpm):	0.00
NOI	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE			
TEST; RIG SUPERVISI	MISCELLA	NEOUS INF	te	emporary well materials removed and the soil boring backfilled using the below ground surface, then hydrated bentonite chips from ten feetings adapted from LTE on-site geologist.	g drill cut t below gr	ttings from tot round surface	al depth to ten to surface.
	PRINT NAM	(E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTIO	ON OTHER TH	AN LICENSEE:
s,	Shane Eldric	dge					
SIGNATURE	CORRECT I	RECORD O	F THE ABOVE D	TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING:	•		
	Jack A	tkins		Jackie D. Atkins		10/07/2020	
Ý		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
FOR	R OSE INTERI	NAL USE		WR-20 WEL	L RECOR	D & LOG (Ver	sion 06/30/2017)

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 2 OF 2

FILE NO.

LOCATION

2020-10-05_C-4474POD1_OSE_Well Record and Log-forsign

Final Audit Report 2020-10-07

Created:

2020-10-07

By:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAAEYXgwvt48YpaHuiUB0eJVri0E9M1MV9m

"2020-10-05_C-4474POD1_OSE_Well Record and Log-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-07 4:31:15 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-10-07 4:32:21 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2020-10-07 4:34:37 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2020-10-07 4:36:23 PM GMT Time Source: server- IP address: 74.50.153.115
- Agreement completed.
 2020-10-07 4:36:23 PM GMT





2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

162 IV 3016 Jaza 2531.

10/07/2020

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4474 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4474 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Grown Whole



APPENDIX B

Photographic Log



Photographic Log XTO Energy, Inc. Poker Lake Unit 301H NAPP2322646789





Photograph 1 Date: 8/30/2023 Photograph 2 Date: 9/25/2023

View: West View: East





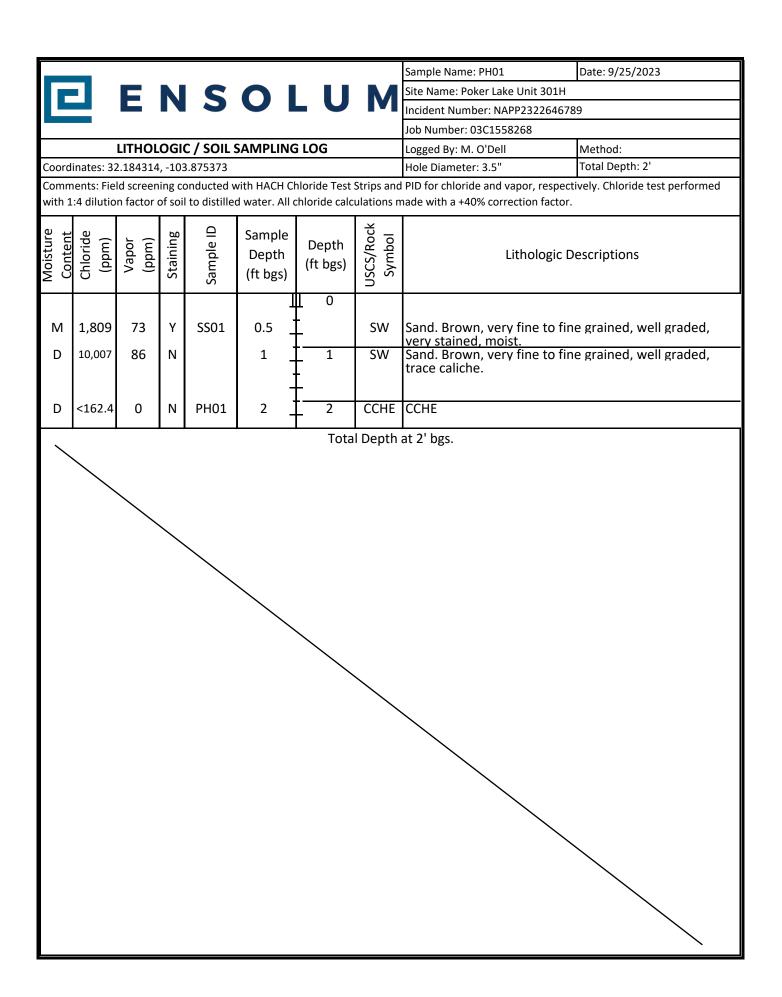
Photograph 3 Date: 9/26/2023 Photograph 4 Date: 9/27/2023

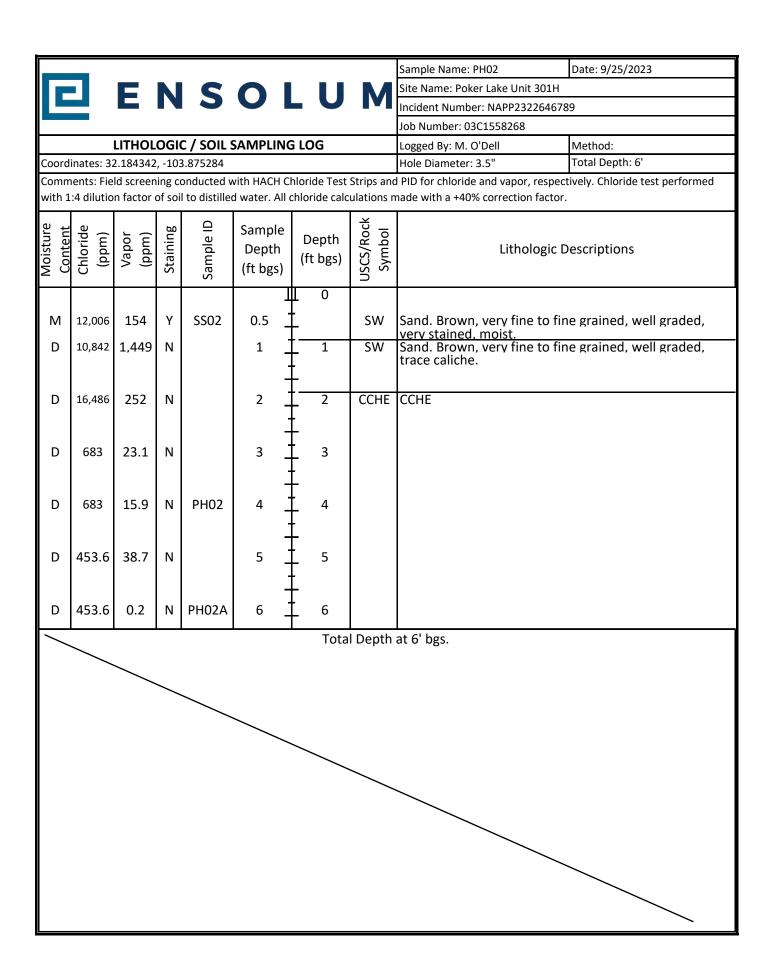
View: South View: West

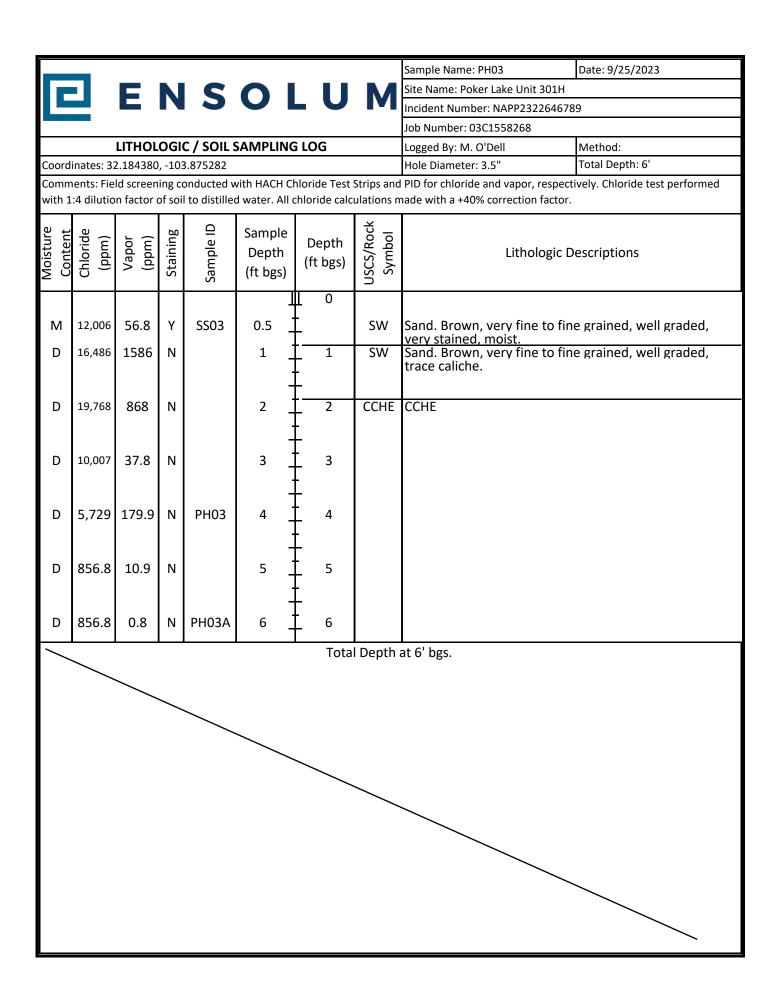


APPENDIX C

Lithologic Soil Sampling Logs









APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 9/12/2023 11:39:19 AM Revision 1

JOB DESCRIPTION

Poker Lake Unit 301H SDG NUMBER 03C1558268

JOB NUMBER

890-5190-1

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 9/12/2023 11:39:19 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Ensolum
Project/Site: Poker Lake Unit 301H

Laboratory Job ID: 890-5190-1
SDG: 03C1558268

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QC Sample Results	14
QC Association Summary	22
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Certification Summary	29
Method Summary	30
Sample Summary	31
Chain of Custody	32
Receipt Checklists	33

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Definitions/Glossary

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

,	
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Qualifiers

GC 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.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualitier 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) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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

Released to Imaging: 3/1/2024 11:40:41 AM

Eurofins Carlsbad

Case Narrative

Client: Ensolum Job ID: 890-5190-1

SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

Job ID: 890-5190-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5190-1

REVISION

The report being provided is a revision of the original report sent on 9/7/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re runs on samples 005 and 006.

Receipt

The samples were received on 9/1/2023 8:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5190-1), SS02 (890-5190-2), SS03 (890-5190-3), SS04 (890-5190-4), SS05 (890-5190-5), SS06 (890-5190-6) and SS07 (890-5190-7).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-61799 and analytical batch 880-61791 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5190-A-4-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-5190-1), SS02 (890-5190-2) and SS03 (890-5190-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-61771 and analytical batch 880-61784 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS06 (890-5190-6), SS07 (890-5190-7), (890-5185-A-9-C), (890-5185-A-9-D MS) and (890-5185-A-9-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61771/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-61771 and analytical batch 880-61784 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-61797 and analytical batch 880-61786 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-5190-1), SS02 (890-5190-2), SS04 (890-5190-4), SS05 (890-5190-5), (890-5188-A-4-B) and (890-5188-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61786/20), (CCV

Case Narrative

Client: Ensolum Job ID: 890-5190-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Job ID: 890-5190-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

880-61786/31) and (CCV 880-61786/5). 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: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS01

Date Collected: 08/30/23 09:30 Date Received: 09/01/23 08:11

Sample Depth: 0.5

Lab	Sample	ID:	890-	5190·	-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.106		0.0201	mg/Kg		09/06/23 08:31	09/06/23 20:17	10
Toluene	0.0234		0.0201	mg/Kg		09/06/23 08:31	09/06/23 20:17	10
Ethylbenzene	0.0422		0.0201	mg/Kg		09/06/23 08:31	09/06/23 20:17	10
m-Xylene & p-Xylene	0.475		0.0402	mg/Kg		09/06/23 08:31	09/06/23 20:17	10
o-Xylene	0.405		0.0201	mg/Kg		09/06/23 08:31	09/06/23 20:17	10
Xylenes, Total	0.880		0.0402	mg/Kg		09/06/23 08:31	09/06/23 20:17	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130			09/06/23 08:31	09/06/23 20:17	10
1,4-Difluorobenzene (Surr)	121		70 - 130			09/06/23 08:31	09/06/23 20:17	10

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total BTEX** 1.05 0.0402 mg/Kg 09/07/23 10:57

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Unit Analyzed Dil Fac RL D Prepared **Total TPH** 3530 50.1 mg/Kg 09/06/23 09:47

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac <50.1 U Gasoline Range Organics 50.1 09/05/23 09:43 09/05/23 18:26 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 09/05/23 09:43 09/05/23 18:26 3290 50.1 mg/Kg C10-C28) **Oll Range Organics (Over** 50.1 09/05/23 09:43 09/05/23 18:26 mg/Kg 237 C28-C36) Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed

70 - 130 1-Chlorooctane 26 S1-09/05/23 09:43 09/05/23 18:26 50 S1-70 - 130 09/05/23 09:43 09/05/23 18:26 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Unit **Analyte** RL Prepared Analyzed Dil Fac Chloride 2750 25.0 09/06/23 16:24 mg/Kg

Date Collected: 08/30/23 09:35 Date Received: 09/01/23 08:11

Client Sample ID: SS02

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0202	U	0.0202	mg/Kg		09/06/23 08:31	09/06/23 20:38	10
Toluene	0.247		0.0202	mg/Kg		09/06/23 08:31	09/06/23 20:38	10
Ethylbenzene	0.0758		0.0202	mg/Kg		09/06/23 08:31	09/06/23 20:38	10
m-Xylene & p-Xylene	1.44		0.0403	mg/Kg		09/06/23 08:31	09/06/23 20:38	10
o-Xylene	0.666		0.0202	mg/Kg		09/06/23 08:31	09/06/23 20:38	10
Xylenes, Total	2.11		0.0403	mg/Kg		09/06/23 08:31	09/06/23 20:38	10

Lab Sample ID: 890-5190-2

Eurofins Carlsbad

Matrix: Solid

2.43

Matrix: Solid

Lab Sample ID: 890-5190-2

09/07/23 10:57

Client: Ensolum Job ID: 890-5190-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS02

Date Collected: 08/30/23 09:35 Date Received: 09/01/23 08:11

Sample Depth: 0.5

Total BTEX

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	09/06/23 08:31	09/06/23 20:38	10
1,4-Difluorobenzene (Surr)	112		70 - 130	09/06/23 08:31	09/06/23 20:38	10

Method: TAL SOP Total BTEX - Analyte	Total BTEX Calculation Result Qualifier	on RL	Unit	D	Prepared	Analyzed	Dil Fa	ıC
1,4-Difluorobenzene (Surr)	112	70 - 130		(09/06/23 08:31	09/06/23 20:38	1	0

0.0403

mg/Kg

Method: SW846 8015 NM - Dies	sel Range C	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3200		50.5	mg/Kg			09/06/23 09:47	1

Method: SW846 8015B NM -	 Diesel Range Organics 	s (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	128	50.5	mg/Kg		09/05/23 09:43	09/05/23 18:48	1
Diesel Range Organics (Over C10-C28)	2850	50.5	mg/Kg		09/05/23 09:43	09/05/23 18:48	1
Oll Range Organics (Over C28-C36)	222	50.5	mg/Kg		09/05/23 09:43	09/05/23 18:48	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analvzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	34	S1-	70 - 130	09/05/23 09:43	09/05/23 18:48	1
o-Terphenyl	39	S1-	70 - 130	09/05/23 09:43	09/05/23 18:48	1
Method: EPA 300.0 - Anions, Id	on Chroma	tography -	Soluble			

Chloride 1030 5.00 mg/Kg 09/06/23 16:30	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1030	5.00	mg/Kg			09/06/23 16:30	1

Client Sample ID: SS03

Date Collected: 08/30/23 09:40

Lab Sample ID: 890-5190-3

Matrix: Solid

Date Received: 09/01/23 08:11

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199	mg/Kg		09/06/23 08:31	09/06/23 20:59	10
Toluene	<0.0199	U	0.0199	mg/Kg		09/06/23 08:31	09/06/23 20:59	10
Ethylbenzene	<0.0199	U	0.0199	mg/Kg		09/06/23 08:31	09/06/23 20:59	10
m-Xylene & p-Xylene	<0.0398	U	0.0398	mg/Kg		09/06/23 08:31	09/06/23 20:59	10
o-Xylene	0.0289		0.0199	mg/Kg		09/06/23 08:31	09/06/23 20:59	10
Xylenes, Total	<0.0398	U	0.0398	mg/Kg		09/06/23 08:31	09/06/23 20:59	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			09/06/23 08:31	09/06/23 20:59	10
1,4-Difluorobenzene (Surr)	123		70 - 130			09/06/23 08:31	09/06/23 20:59	10

Method: IAL SOP Total BIEX -	lotal BIEX (Calculation					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0398 U	0.0398	mg/Kg			09/07/23 10:57	1

Client: Ensolum Job ID: 890-5190-1

Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS03 Lab Sample ID: 890-5190-3 Date Collected: 08/30/23 09:40

Matrix: Solid Date Received: 09/01/23 08:11

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	660		50.5	mg/Kg			09/06/23 09:47	1
Method: SW846 8015B NM -	Diesel Range	e Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		09/05/23 09:43	09/05/23 19:11	1
Diesel Range Organics (Over C10-C28)	593		50.5	mg/Kg		09/05/23 09:43	09/05/23 19:11	1
Oll Range Organics (Over C28-C36)	66.5		50.5	mg/Kg		09/05/23 09:43	09/05/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			09/05/23 09:43	09/05/23 19:11	1
o-Terphenyl	128		70 - 130			09/05/23 09:43	09/05/23 19:11	1

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac Chloride 7290 50.4 09/06/23 16:37 mg/Kg

Client Sample ID: SS04 Lab Sample ID: 890-5190-4 **Matrix: Solid**

Date Collected: 08/30/23 09:45 Date Received: 09/01/23 08:11

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/05/23 10:29	09/05/23 12:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/05/23 10:29	09/05/23 12:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/05/23 10:29	09/05/23 12:28	1
m-Xylene & p-Xylene	< 0.00396	U F1	0.00396	mg/Kg		09/05/23 10:29	09/05/23 12:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/05/23 10:29	09/05/23 12:28	1
Xylenes, Total	<0.00396	U F1	0.00396	mg/Kg		09/05/23 10:29	09/05/23 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			09/05/23 10:29	09/05/23 12:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/05/23 10:29	09/05/23 12:28	1
Method: TAL SOP Total BTEX Analyte	(- Total BTE Result	Qualifier	ion RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	(- Total BTE Result <0.00396	Qualifier U	RL 0.00396	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di	(- Total BTE Result <0.00396 esel Range (Qualifier U Organics (RL 0.00396 DRO) (GC)	mg/Kg	_ =	Prepared	Analyzed 09/05/23 17:40	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	(- Total BTE Result <0.00396 esel Range (Result	Qualifier U	RL 0.00396 DRO) (GC) RL	mg/Kg	<u>D</u>		Analyzed 09/05/23 17:40 Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH	C - Total BTE Result <0.00396 esel Range (Result 72.1	Qualifier U Organics (Qualifier	RL 0.00396 DRO) (GC) RL 49.8	mg/Kg	_ =	Prepared	Analyzed 09/05/23 17:40	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E	C - Total BTE Result <0.00396 esel Range Result 72.1 Diesel Range	Qualifier U Organics (I Qualifier Organics	DRO) (GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 09/05/23 17:40 Analyzed 09/06/23 09:47	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte	C - Total BTE	Qualifier U Organics (Qualifier Organics Qualifier Qualifier	DRO) (GC) RL 49.8	mg/Kg Unit mg/Kg Unit	_ =	Prepared Prepared	Analyzed 09/05/23 17:40 Analyzed 09/06/23 09:47 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10	C - Total BTE Result <0.00396 esel Range Result 72.1 Diesel Range	Qualifier U Organics (Qualifier Organics Qualifier Qualifier	DRO) (GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 09/05/23 17:40 Analyzed 09/06/23 09:47 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	C - Total BTE	Qualifier U Organics (Qualifier Organics Qualifier Qualifier	DRO) (GC) RL 49.8	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 09/05/23 17:40 Analyzed 09/06/23 09:47 Analyzed 09/05/23 19:33	Dil Fac

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS04 Lab Sample ID: 890-5190-4

Date Collected: 08/30/23 09:45 **Matrix: Solid** Date Received: 09/01/23 08:11

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	09/05/23 09:43	09/05/23 19:33	1
o-Terphenyl	133	S1+	70 - 130	09/05/23 09:43	09/05/23 19:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 09/06/23 17:09 Chloride 515 4.96 mg/Kg

Client Sample ID: SS05 Lab Sample ID: 890-5190-5 Date Collected: 08/30/23 09:50 **Matrix: Solid**

Date Received: 09/01/23 08:11

Sample Depth: 0.5

Method: SW846 8021B - Vo Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 12:49	1
Toluene	< 0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 12:49	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 12:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/05/23 10:29	09/05/23 12:49	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 12:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/05/23 10:29	09/05/23 12:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	96	-	70 120			00/05/23 10:20	00/05/23 12:40	1

,					
4-Bromofluorobenzene (Surr)	96	70 - 130	09/05/23 10:29	09/05/23 12:49	1
1,4-Difluorobenzene (Surr)	73	70 - 130	09/05/23 10:29	09/05/23 12:49	1
Method: TAL SOP Total BTEX	- Total BTEX Calculat	ion			

Method. IAL 301 Total	DILA - Iotal DILA Calculati	ion					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			09/05/23 17:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Total TPH	55.1	49.6	mg/Kg			09/06/23 09:47	1	

Method: SW846 8015B NM - D Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		09/05/23 09:43	09/05/23 19:56	1
Diesel Range Organics (Over C10-C28)	55.1		49.6	mg/Kg		09/05/23 09:43	09/05/23 19:56	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		09/05/23 09:43	09/05/23 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130			09/05/23 09:43	09/05/23 19:56	1
o-Terphenyl	186	S1+	70 - 130			09/05/23 09:43	09/05/23 19:56	1

Method: EPA 300.0 - Anions, I	on Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	683	4.98	mg/Kg			09/08/23 21:35	1

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Client: Ensolum Job ID: 890-5190-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS06 Lab Samp

Lab Sample ID: 890-5190-6

Date Collected: 08/30/23 09:55

Date Received: 09/01/23 08:11

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 13:09	1
Toluene	< 0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 13:09	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 13:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/05/23 10:29	09/05/23 13:09	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		09/05/23 10:29	09/05/23 13:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/05/23 10:29	09/05/23 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			09/05/23 10:29	09/05/23 13:09	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/05/23 10:29	09/05/23 13:09	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/05/23 17:40	1
Method: SW846 8015 NM - Di	esel Range (Organics (DRO) (GC)					
Method: SW846 8015 NM - Die Analyte	_	Organics (Qualifier	DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH	_	Qualifier	, , ,	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/06/23 09:18	
Analyte Total TPH	Result < 50.3	Qualifier U	RL 50.3		<u>D</u>	Prepared		
Analyte	Result <50.3	Qualifier U Organics	RL 50.3		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.3 Diesel Range Result	Qualifier U Organics Qualifier	RL 50.3		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - E	Result <50.3	Qualifier U Organics Qualifier	RL 50.3 (DRO) (GC)	mg/Kg	— = 	· ·	09/06/23 09:18	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics	Result <50.3 Diesel Range Result	Qualifier U Organics Qualifier U	70.3 (DRO) (GC) RL	mg/Kg	— = 	Prepared	09/06/23 09:18 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.3 Diesel Range Result <50.3	Qualifier U Organics Qualifier U	RL 50.3 (DRO) (GC) RL 50.3	mg/Kg Unit mg/Kg	— = 	Prepared 09/05/23 09:38 09/05/23 09:38	09/06/23 09:18 Analyzed 09/05/23 18:26	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - December 2015 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.3	Qualifier U Organics Qualifier U U	RL 50.3 (DRO) (GC) RL 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 09/05/23 09:38 09/05/23 09:38	09/06/23 09:18 Analyzed 09/05/23 18:26 09/05/23 18:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - December 19 PM - December 20 P	Result <50.3	Qualifier U Organics Qualifier U U	RL 50.3 (DRO) (GC) RL 50.3 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 09/05/23 09:38 09/05/23 09:38	09/06/23 09:18 Analyzed 09/05/23 18:26 09/05/23 18:26 09/05/23 18:26	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.3	Qualifier U Organics Qualifier U U Qualifier	RL 50.3 (DRO) (GC) RL 50.3 50.3 50.3 Limits	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 09/05/23 09:38 09/05/23 09:38 09/05/23 09:38 Prepared	09/06/23 09:18 Analyzed 09/05/23 18:26 09/05/23 18:26 09/05/23 18:26 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.3	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+	RL 50.3 (DRO) (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 09/05/23 09:38 09/05/23 09:38 09/05/23 09:38 Prepared 09/05/23 09:38	Analyzed 09/05/23 18:26 09/05/23 18:26 09/05/23 18:26 Analyzed 09/05/23 18:26	Dil Face 1 1 1 1 Dil Face 1
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.3	Qualifier U Organics Qualifier U U U Qualifier S1+ S1+	RL 50.3 (DRO) (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 09/05/23 09:38 09/05/23 09:38 09/05/23 09:38 Prepared 09/05/23 09:38	Analyzed 09/05/23 18:26 09/05/23 18:26 09/05/23 18:26 Analyzed 09/05/23 18:26	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SS07

Date Collected: 08/30/23 10:00

Lab Sample ID: 890-5190-7

Matrix: Solid

Date Received: 09/01/23 08:11

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 13:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 13:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/05/23 10:29	09/05/23 13:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 13:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/05/23 10:29	09/05/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			09/05/23 10:29	09/05/23 13:30	1

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Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

255

Client Sample Results

Client: Ensolum Job ID: 890-5190-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS07 Lab Sample ID: 890-5190-7

Date Collected: 08/30/23 10:00 Matrix: Solid
Date Received: 09/01/23 08:11

Sample Depth: 0.5

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130			09/05/23 10:29	09/05/23 13:30	1
Method: TAL SOP Total BTEX	C - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/05/23 17:40	1
Method: SW846 8015 NM - Di	esel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/23 09:18	1
: Method: SW846 8015B NM - [Diesel Range			mg/Kg Unit	D	Prepared		Dil Fac
Method: SW846 8015B NM - D Analyte	Diesel Range Result	Organics Qualifier	(DRO) (GC)	Unit	<u>D</u>	Prepared 09/05/23 09:38	09/06/23 09:18 Analyzed 09/05/23 18:48	Dil Fac
Method: SW846 8015B NM - DANAINTE Gasoline Range Organics	Diesel Range Result	Organics Qualifier	(DRO) (GC)		<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - DANIE Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result	Organics Qualifier	(DRO) (GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - DANIE Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result <49.9	Organics Qualifier U	(DRO) (GC) RL 49.9	Unit mg/Kg	<u>D</u>	09/05/23 09:38	Analyzed 09/05/23 18:48	1 Dil Fac
Method: SW846 8015B NM - DANIEL Gasoline Range Organics (GRO)-C6-C10	Diesel Range Result <49.9	Organics Qualifier U	(DRO) (GC) RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	09/05/23 09:38 09/05/23 09:38	Analyzed 09/05/23 18:48 09/05/23 18:48	Dil Fac
Method: SW846 8015B NM - DAMAINTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		Qualifier U U Qualifier	(DRO) (GC) RL 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	09/05/23 09:38 09/05/23 09:38 09/05/23 09:38	Analyzed 09/05/23 18:48 09/05/23 18:48 09/05/23 18:48	1

5.01

Unit

mg/Kg

Analyzed

09/06/23 17:28

Dil Fac

Prepared

Surrogate Summary

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5189-A-2-D MS	Matrix Spike	110	100	
890-5189-A-2-E MSD	Matrix Spike Duplicate	111	100	
890-5190-1	SS01	191 S1+	121	
890-5190-2	SS02	154 S1+	112	
890-5190-3	SS03	159 S1+	123	
890-5190-4	SS04	84	92	
890-5190-4 MS	SS04	137 S1+	115	
890-5190-4 MSD	SS04	125	111	
890-5190-5	SS05	96	73	
890-5190-6	SS06	97	71	
890-5190-7	SS07	95	73	
LCS 880-61799/1-A	Lab Control Sample	121	119	
LCS 880-61899/1-A	Lab Control Sample	97	102	
LCSD 880-61799/2-A	Lab Control Sample Dup	123	117	
LCSD 880-61899/2-A	Lab Control Sample Dup	107	94	
MB 880-61799/5-A	Method Blank	74	99	
MB 880-61899/5-A	Method Blank	78	92	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limit	ts)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5185-A-9-D MS	Matrix Spike	152 S1+	120	
890-5185-A-9-E MSD	Matrix Spike Duplicate	153 S1+	116	
890-5188-A-4-C MS	Matrix Spike	127	129	
890-5188-A-4-D MSD	Matrix Spike Duplicate	145 S1+	141 S1+	
890-5190-1	SS01	26 S1-	50 S1-	
890-5190-2	SS02	34 S1-	39 S1-	
890-5190-3	SS03	123	128	
890-5190-4	SS04	123	133 S1+	
890-5190-5	SS05	168 S1+	186 S1+	
890-5190-6	SS06	148 S1+	131 S1+	
890-5190-7	SS07	148 S1+	130	
LCS 880-61771/2-A	Lab Control Sample	124	127	
LCS 880-61797/2-A	Lab Control Sample	93	109	
LCSD 880-61771/3-A	Lab Control Sample Dup	135 S1+	119	
LCSD 880-61797/3-A	Lab Control Sample Dup	85	97	
MB 880-61771/1-A	Method Blank	164 S1+	151 S1+	
MB 880-61797/1-A	Method Blank	132 S1+	151 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61799/5-A

Lab Sample ID: LCS 880-61799/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 61791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61799

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 12:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 12:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/05/23 10:29	09/05/23 12:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/05/23 10:29	09/05/23 12:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/05/23 10:29	09/05/23 12:06	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	09/05/23 10:29	09/05/23 12:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/05/23 10:29	09/05/23 12:06	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61799

Prep Type: Total/NA

Prep Batch: 61799

Analysis Batch: 61791 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1028 mg/Kg 103 70 - 130 Toluene 0.100 mg/Kg 70 - 130 0.1080 108 Ethylbenzene 0.100 0.1097 mg/Kg 110 70 - 130 m-Xylene & p-Xylene 0.200 0.2472 mg/Kg 124 70 - 130 0.100 0.1205 121 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1,4-Difluorobenzene (Surr)	119	70 - 130

Client Sample ID: Lab Control Sample Dup

mg/Kg

113

70 - 130

Matrix: Solid

Analysis Batch: 61791

Lab Sample ID: LCSD 880-61799/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1042		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1144		mg/Kg		114	70 - 130	6	35
Ethylbenzene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2559		mg/Kg		128	70 - 130	3	35
o-Xylene	0.100	0.1254		mg/Kg		125	70 - 130	4	35

LCSD LCSD

<0.00198 U

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1,4-Difluorobenzene (Surr)	117	70 - 130

Lab Sample ID: 890-5190-4 MS

Toluene

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 61791** Prep Batch: 61799 MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00198 U 0.0996 0.1033 103 70 - 130 mg/Kg

0.1126

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Client Sample ID: SS04

0.0996

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

137 S1+

115

Lab Sample ID: 890-5190-4 MS

Matrix: Solid

Analysis Batch: 61791

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

Matrix: Solid

Lab Sample ID: 890-5190-4 MSD

Client Sample ID: SS04 Prep Type: Total/NA

Prep Batch: 61799

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.0996	0.1180		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	<0.00396	U F1	0.199	0.2652	F1	mg/Kg		133	70 - 130	
o-Xylene	<0.00198	U	0.0996	0.1281		mg/Kg		129	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

70 - 130

70 - 130

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 61799 **RPD**

Analysis Batch: 61791 Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00198 U 0.101 0.1051 mg/Kg 103 70 - 130 2 35 Toluene <0.00198 U 0.101 0.1127 70 - 130 35 mg/Kg 112 111 70 - 130 Ethylbenzene <0.00198 U 0.101 0.1122 mg/Kg 5 35 m-Xylene & p-Xylene <0.00396 UF1 0.202 0.2489 mg/Kg 123 70 - 130 6 35 <0.00198 U 0.101 120 o-Xylene 0.1211 mg/Kg 70 - 130

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 125 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130 111

Lab Sample ID: MB 880-61899/5-A

Matrix: Solid

Analysis Batch: 61898

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

Prep Batch: 61899

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/06/23 08:31	09/06/23 11:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/06/23 08:31	09/06/23 11:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/06/23 08:31	09/06/23 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/06/23 08:31	09/06/23 11:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/06/23 08:31	09/06/23 11:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/06/23 08:31	09/06/23 11:21	1

	iii D	W.D				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	09/06/23 08:31	09/06/23 11:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/06/23 08:31	09/06/23 11:21	1

MR MR

Lab Sample ID: LCS 880-61899/1-A

Matrix: Solid

Analysis Batch: 61898

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

Prep Batch: 61899

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1055		mg/Kg		106	70 - 130	
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2074		mg/Kg		104	70 - 130	

Client: Ensolum Job ID: 890-5190-1 SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

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

Lab Sample ID: LCS 880-61899/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 61898** Prep Batch: 61899 LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0 100 0.09836 mg/Kg 98 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: LCSD 880-61899/2-A **Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 61898 Prep Batch: 61899 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier D %Rec Limits RPD Limit **Analyte** Unit Benzene 0.100 0.09332 mg/Kg 93 70 - 130 12 35

Toluene 0.100 0.1018 mg/Kg 102 70 - 130 1 35 Ethylbenzene 0.100 0.1068 mg/Kg 107 70 - 130 35 4 m-Xylene & p-Xylene 0.200 0.2299 35 mg/Kg 115 70 - 130 10 o-Xylene 0.100 0.1079 mg/Kg 108 70 - 130 9 35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 107 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

Lab Sample ID: 890-5189-A-2-D MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 61898

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec **Analyte** Unit D Limits U Benzene <0.00198 0.0996 0.09806 mg/Kg 98 70 - 130 Toluene <0.00198 U 0.0996 0.1078 mg/Kg 108 70 - 130 Ethylbenzene <0.00198 U 0.0996 0.1153 mg/Kg 116 70 - 130 m-Xylene & p-Xylene <0.00396 U 0.199 0.2417 mg/Kg 121 70 - 130 o-Xylene <0.00198 U 0.0996 0.1143 mg/Kg 115 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 70 - 130 100

Lab Sample ID: 890-5189-A-2-E MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 61898									Prep E	Batch: (61899
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0994	0.09366		mg/Kg		94	70 - 130	5	35
Toluene	<0.00198	U	0.0994	0.1039		mg/Kg		104	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.0994	0.1126		mg/Kg		113	70 - 130	2	35
m-Xylene & p-Xylene	< 0.00396	U	0.199	0.2392		mg/Kg		120	70 - 130	1	35
o-Xylene	<0.00198	U	0.0994	0.1136		mg/Kg		114	70 - 130	1	35

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Prep Type: Total/NA

Prep Batch: 61899

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: 890-5189-A-2-E MSD

Matrix: Solid

Analysis Batch: 61898

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61899

MSD MSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-61771/1-A

Matrix: Solid

Analysis Batch: 61784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61771

мв мв

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac 09/01/23 15:18 09/05/23 08:20 Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 09/01/23 15:18 09/05/23 08:20 C10-C28) 09/01/23 15:18 09/05/23 08:20 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	09/01/23 15:18	09/05/23 08:20	1
o-Terphenyl	151	S1+	70 - 130	09/01/23 15:18	09/05/23 08:20	1

Lab Sample ID: LCS 880-61771/2-A

Matrix: Solid

Analysis Batch: 61784

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 61771

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1128		mg/Kg		113	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1049		mg/Kg		105	70 - 130	

	LOG LOG	
Surrogate	%Recovery Qualified	r Limits
1-Chlorooctane	124	70 - 130
o-Terphenyl	127	70 - 130

100 100

Lab Sample ID: LCSD 880-61771/3-A

Matrix: Solid

Analysis Batch: 61784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 61771

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1176 mg/Kg 118 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1013 mg/Kg 101 70 - 130 20 C10-C28)

LCSD LCSD

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Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	119		70 - 130

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20

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: 890-5185-A-9-D MS

Matrix: Solid

Analysis Batch: 61784

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

Prep Batch: 61771

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	991	1070		mg/Kg		104	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.6	U F1	991	1441	F1	mg/Kg		142	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	152	S1+	70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-5185-A-9-E MSD

Matrix: Solid

Analysis Batch: 61784

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 61771

MSD MSD %Rec Sample Sample Spike **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics <49.6 U 991 1070 mg/Kg 104 70 - 130 0 (GRO)-C6-C10 Diesel Range Organics (Over 991 2 20 <49.6 U F1 1406 F1 mg/Kg 138 70 - 130 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: MB 880-61797/1-A

Matrix: Solid

Analysis Batch: 61786

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61797

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	_	09/05/23 07:40	09/05/23 08:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/05/23 07:40	09/05/23 08:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/05/23 07:40	09/05/23 08:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	09/05/23 07:40	09/05/23 08:20	1
o-Terphenyl	151	S1+	70 - 130	09/05/23 07:40	09/05/23 08:20	1

Lab Sample ID: LCS 880-61797/2-A

Matrix: Solid

Analysis Batch: 61786

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

Prep Batch: 61797

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	973.8		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	967.7		mg/Kg		97	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-5190-1 SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

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

Lab Sample ID: LCS 880-61797/2-A

Matrix: Solid

Analysis Batch: 61786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61797

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 93 70 - 130 o-Terphenyl 109 70 - 130

Lab Sample ID: LCSD 880-61797/3-A

Matrix: Solid

Analysis Batch: 61786

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61797

LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 831.1 mg/Kg 83 70 - 130 16 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 822.5 mg/Kg 82 70 - 130 16 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 85 70 - 130 70 - 130 o-Terphenyl 97

Lab Sample ID: 890-5188-A-4-C MS

Matrix: Solid

Analysis Batch: 61786

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61797

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec <50.5 U Gasoline Range Organics 998 924.8 mg/Kg 88 70 - 130 (GRO)-C6-C10 998 Diesel Range Organics (Over <50.5 U 1076 mg/Kg 104 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 127 o-Terphenyl 70 - 130 129

Lab Sample ID: 890-5188-A-4-D MSD

Matrix: Solid

Analysis Batch: 61786

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61797 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Gasoline Range Organics <50.5 U 998 1082 104 70 - 130 20 mg/Kg 16 (GRO)-C6-C10 Diesel Range Organics (Over <50.5 U 998 1220 mg/Kg 119 70 - 130 12 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 145 S1+ 70 - 130 o-Terphenyl 141 S1+ 70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

D %Rec

100

Client Sample ID: Lab Control Sample Dup

%Rec

Limits

90 - 110

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SS03

Client Sample ID: SS03

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client: Ensolum Job ID: 890-5190-1 SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61800/1-A

Analysis Batch: 61917

Matrix: Solid

MB MB

Analyte

Analyzed Result Qualifier RL Unit Dil Fac D Prepared 5.00 09/06/23 14:29 Chloride <5.00 U mg/Kg

LCS LCS

250.8

Unit

mg/Kg

Lab Sample ID: LCS 880-61800/2-A

Matrix: Solid

Analysis Batch: 61917

Spike Added Result Qualifier

Analyte Chloride

Lab Sample ID: LCSD 880-61800/3-A **Matrix: Solid**

Analysis Batch: 61917

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit D %Rec Limit Chloride 250 248.3 99 20 mg/Kg

250

Lab Sample ID: 890-5190-3 MS

Matrix: Solid

Analysis Batch: 61917

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2520 9720 Chloride 7290 mg/Kg 90 - 110

Lab Sample ID: 890-5190-3 MSD

Matrix: Solid

Analysis Batch: 61917

MSD MSD RPD Spike Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 2520 96 7290 9713 mg/Kg 90 - 110

Lab Sample ID: MB 880-62029/1-A

Matrix: Solid

Analysis Batch: 62247

MB MB

Result Qualifier Analyte

RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 09/08/23 20:19

Lab Sample ID: LCS 880-62029/2-A

Matrix: Solid

Analysis Batch: 62247

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec 250 Chloride 247.2 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-62029/3-A

Released to Imaging: 3/1/2024 11:40:41 AM

Matrix: Solid

Analysis Batch: 62247

Spike LCSD LCSD %Rec **RPD** Added **RPD** Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 245.8 mg/Kg 98 90 - 110 20

97

94

90 - 110

90 - 110

QC Sample Results

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 300.0 - Anions, Ion Chromatography

578

578

Lab Sample ID: 880-33017-A-1-B MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid Analysis Batch: 62247

Chloride

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

249

249

Chloride 818.5 mg/Kg Lab Sample ID: 880-33017-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

811.9

mg/Kg

Analysis Batch: 62247

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

GC VOA

Analysis Batch: 61791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-4	SS04	Total/NA	Solid	8021B	61799
890-5190-5	SS05	Total/NA	Solid	8021B	61799
890-5190-6	SS06	Total/NA	Solid	8021B	61799
890-5190-7	SS07	Total/NA	Solid	8021B	61799
MB 880-61799/5-A	Method Blank	Total/NA	Solid	8021B	61799
LCS 880-61799/1-A	Lab Control Sample	Total/NA	Solid	8021B	61799
LCSD 880-61799/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61799
890-5190-4 MS	SS04	Total/NA	Solid	8021B	61799
890-5190-4 MSD	SS04	Total/NA	Solid	8021B	61799

Prep Batch: 61799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-4	SS04	Total/NA	Solid	5035	_
890-5190-5	SS05	Total/NA	Solid	5035	
890-5190-6	SS06	Total/NA	Solid	5035	
890-5190-7	SS07	Total/NA	Solid	5035	
MB 880-61799/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61799/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61799/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5190-4 MS	SS04	Total/NA	Solid	5035	
890-5190-4 MSD	SS04	Total/NA	Solid	5035	

Analysis Batch: 61880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Total/NA	Solid	Total BTEX	
890-5190-2	SS02	Total/NA	Solid	Total BTEX	
890-5190-3	SS03	Total/NA	Solid	Total BTEX	
890-5190-4	SS04	Total/NA	Solid	Total BTEX	
890-5190-5	SS05	Total/NA	Solid	Total BTEX	
890-5190-6	SS06	Total/NA	Solid	Total BTEX	
890-5190-7	SS07	Total/NA	Solid	Total BTEX	

Analysis Batch: 61898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Total/NA	Solid	8021B	61899
890-5190-2	SS02	Total/NA	Solid	8021B	61899
890-5190-3	SS03	Total/NA	Solid	8021B	61899
MB 880-61899/5-A	Method Blank	Total/NA	Solid	8021B	61899
LCS 880-61899/1-A	Lab Control Sample	Total/NA	Solid	8021B	61899
LCSD 880-61899/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61899
890-5189-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	61899
890-5189-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	61899

Prep Batch: 61899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Total/NA	Solid	5035	_
890-5190-2	SS02	Total/NA	Solid	5035	
890-5190-3	SS03	Total/NA	Solid	5035	
MB 880-61899/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61899/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61899/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

GC VOA (Continued)

Prep Batch: 61899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5189-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5189-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 61771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-6	SS06	Total/NA	Solid	8015NM Prep	
890-5190-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-61771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5185-A-9-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5185-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-6	SS06	Total/NA	Solid	8015B NM	61771
890-5190-7	SS07	Total/NA	Solid	8015B NM	61771
MB 880-61771/1-A	Method Blank	Total/NA	Solid	8015B NM	61771
LCS 880-61771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61771
LCSD 880-61771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61771
890-5185-A-9-D MS	Matrix Spike	Total/NA	Solid	8015B NM	61771
890-5185-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	61771

Analysis Batch: 61786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Total/NA	Solid	8015B NM	61797
890-5190-2	SS02	Total/NA	Solid	8015B NM	61797
890-5190-3	SS03	Total/NA	Solid	8015B NM	61797
890-5190-4	SS04	Total/NA	Solid	8015B NM	61797
890-5190-5	SS05	Total/NA	Solid	8015B NM	61797
MB 880-61797/1-A	Method Blank	Total/NA	Solid	8015B NM	61797
LCS 880-61797/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61797
LCSD 880-61797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61797
890-5188-A-4-C MS	Matrix Spike	Total/NA	Solid	8015B NM	61797
890-5188-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	61797

Prep Batch: 61797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Total/NA	Solid	8015NM Prep	
890-5190-2	SS02	Total/NA	Solid	8015NM Prep	
890-5190-3	SS03	Total/NA	Solid	8015NM Prep	
890-5190-4	SS04	Total/NA	Solid	8015NM Prep	
890-5190-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-61797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61797/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5188-A-4-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5188-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

GC Semi VOA

Analysis Batch: 61909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Total/NA	Solid	8015 NM	
890-5190-2	SS02	Total/NA	Solid	8015 NM	
890-5190-3	SS03	Total/NA	Solid	8015 NM	
890-5190-4	SS04	Total/NA	Solid	8015 NM	
890-5190-5	SS05	Total/NA	Solid	8015 NM	
890-5190-6	SS06	Total/NA	Solid	8015 NM	
890-5190-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 61800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Soluble	Solid	DI Leach	
890-5190-2	SS02	Soluble	Solid	DI Leach	
890-5190-3	SS03	Soluble	Solid	DI Leach	
890-5190-4	SS04	Soluble	Solid	DI Leach	
890-5190-7	SS07	Soluble	Solid	DI Leach	
MB 880-61800/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61800/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61800/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5190-3 MS	SS03	Soluble	Solid	DI Leach	
890-5190-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 61917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-1	SS01	Soluble	Solid	300.0	61800
890-5190-2	SS02	Soluble	Solid	300.0	61800
890-5190-3	SS03	Soluble	Solid	300.0	61800
890-5190-4	SS04	Soluble	Solid	300.0	61800
890-5190-7	SS07	Soluble	Solid	300.0	61800
MB 880-61800/1-A	Method Blank	Soluble	Solid	300.0	61800
LCS 880-61800/2-A	Lab Control Sample	Soluble	Solid	300.0	61800
LCSD 880-61800/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61800
890-5190-3 MS	SS03	Soluble	Solid	300.0	61800
890-5190-3 MSD	SS03	Soluble	Solid	300.0	61800

Leach Batch: 62029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-5	SS05	Soluble	Solid	DI Leach	
890-5190-6	SS06	Soluble	Solid	DI Leach	
MB 880-62029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33017-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-33017-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 62247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5190-5	SS05	Soluble	Solid	300.0	62029
890-5190-6	SS06	Soluble	Solid	300.0	62029
MB 880-62029/1-A	Method Blank	Soluble	Solid	300.0	62029

Client: Ensolum
Project/Site: Poker Lake Unit 301H
SDG: 03C1558268

HPLC/IC (Continued)

Analysis Batch: 62247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-62029/2-A	Lab Control Sample	Soluble	Solid	300.0	62029
LCSD 880-62029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62029
880-33017-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	62029
880-33017-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62029

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Client: Ensolum Job ID: 890-5190-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS01

Date Collected: 08/30/23 09:30 Date Received: 09/01/23 08:11 Lab Sample ID: 890-5190-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61899	09/06/23 08:31	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	61898	09/06/23 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/07/23 10:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61797	09/05/23 09:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61786	09/05/23 18:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61800	09/05/23 10:30	SMC	EET MID
Soluble	Analysis	300.0		5			61917	09/06/23 16:24	CH	EET MID

Client Sample ID: SS02

Date Collected: 08/30/23 09:35

Lab Sample ID: 890-5190-2

Matrix: Solid

Date Received: 09/01/23 08:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61899	09/06/23 08:31	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	61898	09/06/23 20:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/07/23 10:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61797	09/05/23 09:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61786	09/05/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61800	09/05/23 10:30	SMC	EET MID
Soluble	Analysis	300.0		1			61917	09/06/23 16:30	CH	EET MID

Client Sample ID: SS03

Date Collected: 08/30/23 09:40

Lab Sample ID: 890-5190-3

Matrix: Solid

Date Received: 09/01/23 08:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	61899	09/06/23 08:31	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	61898	09/06/23 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/07/23 10:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61797	09/05/23 09:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61786	09/05/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61800	09/05/23 10:30	SMC	EET MID
Soluble	Analysis	300.0		10			61917	09/06/23 16:37	CH	EET MID

Client Sample ID: SS04

Date Collected: 08/30/23 09:45

Lab Sample ID: 890-5190-4

Matrix: Solid

Date Received: 09/01/23 08:11

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	61799	09/05/23 10:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61791	09/05/23 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/05/23 17:40	SM	EET MID

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Released to Imaging: 3/1/2024 11:40:41 AM

Date Received: 09/01/23 08:11

Client: Ensolum Project/Site: Poker Lake Unit 301H

Job ID: 890-5190-1

SDG: 03C1558268

Client Sample ID: SS04 Lab Sample ID: 890-5190-4 Date Collected: 08/30/23 09:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	61797	09/05/23 09:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61786	09/05/23 19:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	61800	09/05/23 10:30	SMC	EET MID
Soluble	Analysis	300.0		1			61917	09/06/23 17:09	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-5190-5

Date Collected: 08/30/23 09:50 **Matrix: Solid** Date Received: 09/01/23 08:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	61799	09/05/23 10:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61791	09/05/23 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/05/23 17:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	61797	09/05/23 09:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61786	09/05/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62029	09/08/23 07:58	CH	EET MID
Soluble	Analysis	300.0		1			62247	09/08/23 21:35	CH	EET MID

Lab Sample ID: 890-5190-6 **Client Sample ID: SS06**

Date Collected: 08/30/23 09:55 **Matrix: Solid** Date Received: 09/01/23 08:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	61799	09/05/23 10:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61791	09/05/23 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/05/23 17:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	61771	09/05/23 09:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61784	09/05/23 18:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62029	09/08/23 07:58	CH	EET MID
Soluble	Analysis	300.0		1			62247	09/08/23 21:40	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-5190-7 Date Collected: 08/30/23 10:00 **Matrix: Solid**

Date Received: 09/01/23 08:11

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	61799	09/05/23 10:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61791	09/05/23 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			61880	09/05/23 17:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			61909	09/06/23 09:18	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	61771 61784	09/05/23 09:38 09/05/23 18:48	TKC SM	EET MID EET MID

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Released to Imaging: 3/1/2024 11:40:41 AM

Lab Chronicle

Client: Ensolum Job ID: 890-5190-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SS07 Lab Sample ID: 890-5190-7

Date Collected: 08/30/23 10:00 **Matrix: Solid** Date Received: 09/01/23 08:11

Batch Batch Dil Initial Batch Final Prepared Method **Factor** or Analyzed **Prep Type** Type Run **Amount Amount** Number Analyst Lab Soluble DI Leach 4.99 g 50 mL 61800 09/05/23 10:30 SMC EET MID Leach 300.0 09/06/23 17:28 CH Soluble Analysis 61917 **EET MID** 1

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5190-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
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the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
,	•	Matrix	Analyte	I his list may include analytes for
the agency does not	offer certification.	•	, , ,	I his list may include analytes for t

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Method Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

Job ID: 890-5190-1

SDG: 03C1558268

otocol	Laboratory
V846	EET MID
L SOP	EET MID
V846	EET MID
W846	EET MID
PA	EET MID

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 301H

Job ID: 890-5190-1

SDG: 03C1558268

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5190-1	SS01	Solid	08/30/23 09:30	09/01/23 08:11	0.5
890-5190-2	SS02	Solid	08/30/23 09:35	09/01/23 08:11	0.5
890-5190-3	SS03	Solid	08/30/23 09:40	09/01/23 08:11	0.5
890-5190-4	SS04	Solid	08/30/23 09:45	09/01/23 08:11	0.5
890-5190-5	SS05	Solid	08/30/23 09:50	09/01/23 08:11	0.5
890-5190-6	SS06	Solid	08/30/23 09:55	09/01/23 08:11	0.5
890-5190-7	SS07	Solid	08/30/23 10:00	09/01/23 08:11	0.5

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing

💸 eurofins

Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

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

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

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. rounds. Agriculture of this outstands in 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 Date/Time 9-1-23 Received by: (Signature) are Relinquished by: (Signature) A COLOR

Sea Bell												
S122 Nat'l Parks Hwy Addition Carlsback NM 88220 City, 489.854.0252 Email: Parks Hwy Addition 03C1558268 Email: Tum Arour O3C1558268 Email: Tum Arour O3C1558268 Email: Tum Arour O3C1558268		Sen Belill			Bill to: (if differe	nt)		JARRE	At Green	Work Orde	Work Order Comments	
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thame: Recellate Hot 301H Tum Arount thame: 03C1558268 Faces TAI starts the dayre er's Name: Received Intaction Face Interpretation: 32.18436, -103.81523 Due Date: The lab. if received PLE RECEIPT Temp Blank: (e) No Wet Ice: (v) No (N/A) Correction Factor: -Containers: Yes No (N/A) Correction Factor: -Containers: Nes No (N/A) Correction Factor: -Containers: SSO1 SSO2 SSO2 SSO2 SSO2 SSO3 SSO3 SSO3 SSO3	e ZIP:	srisbad, N	M 882	20	City, State ZIP:		Ű	risba		LevelIII	PST/UST	P Level IV
t Number:		89.854.0	252	Email:		elill	Den	MANIO	wow.	EDD	ADaPT ☐ Other:	
Containers: O3C1558268 Meoutine Close		in lake la	+ 301H	Turr	Around				ANALYSIS REQI	UEST	Preservat	Preservative Codes
PLE RECEIPT Temp Blank: Yes No (N/A) Temperature Reading: Containers: Co	er:	392855	00	Routine	Rush	Pres. Code					None: NO	DI Water: H ₂ O
PLE RECEIPT Temp Blank: (eg) No Wet Ice: (custody Seals: Yes No (N/A) Correction Factor: Containers: Sample Identification Matrix Sampled Sampled Dep SSO2 SSO3 SSO3 SSO4 SSO5 SSO4 SSO5 SSO5 SSO5 SSO5 SSO5		18436,-10	3.8752					=			Cool: Cool	MeOH: Me
PLE RECEIPT Temp Blank: (Yeg) No Wet Ice: (Yeg) No Thermometer ID: The Custody Seals: Yes No (WA) Correction Factor: Containers: Yes No (WA) Temperature Reading: Containers:	er's Name:	eredith Ro	berts		e day received by						HCL: HC	HNO 3: HN
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The monderen ID: Yes No (N/A) Correction Factor: Yes No (N/A) Temperature Reading: Corrected Temperature: Corrected Temper	SAMPLE RECEIPT	Temp Blank:	(Ves) No	Wet Ice:	(Kes) No	mete		38	90-5190 Chain of Custody		H ₃ PO ₄ : HP	
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Corrected Temperature: Corrected Temperatu	Sample Custody Seals:	Yes No (N/A)	Temperat	ure Reading:	0.7			p			Zn Acetate+NaOH: Zn	JH: Zn
S Sampled Time Dec S Say 23 Say 35 Say 35 S Say 23 Say 35	Total Containers:		Corrected	Temperature:	3.8		X				NaOH+Ascorbic Acid: SAPC	Acid: SAPC
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- Mark Value	Ssort	→	→	1000	→	→	>	<i>→</i>			meberts	moberts@ensoim.w
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r reduce volue												
200.8 / 6020: SRCKA ISPFINI	Total 200.7 / 6010	200.8 / 6020:		8RCRA 13PPM	11	Al Sb	As Ba	Be B Cd	Ca Cr Co Cu Fe Pb Me	g Mn Mo Ni K Se Ag SiO ₂ Na	Sr TI Sn U V Zr	
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Circle Method(s) and A	Aetal(s) to be ar	nalyzed	TCLP /	SPLP 6010: 8R		b As Bi	Be Cd (Cr Co Cu Pb Mn Mo Ni		Hg: 1631 / 245.1 / 7470 / 7471	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5190-1 SDG Number: 03C1558268

Login Number: 5190 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Lopez, Abraham

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	

Released to Imaging: 3/1/2024 11:40:41 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5190-1

SDG Number: 03C1558268

List Source: Eurofins Midland
List Number: 2
List Creation: 09/05/23 08:34 AM

Creator: Rodriguez, Leticia

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	N/A	

Euronnis Carisbau

Released to Imaging: 3/1/2024 11:40:41 AM

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14

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/6/2023 2:44:29 PM

JOB DESCRIPTION

Poker Lake Unit 301H SDG NUMBER 03C1558268

JOB NUMBER

890-5341-1

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 10/6/2023 2:44:29 PM

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

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Client: Ensolum Laboratory Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

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Definitions/Glossary

Job ID: 890-5341-1 Client: Ensolum Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Qualifiers

GC VOA	
Qualifier	

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.

S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

MS/MSD RPD exceeds control limits

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 Contains Free Liquid CFL CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

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) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

Method Detection Limit MDL

ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Job ID: 890-5341-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5341-1

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

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

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

Receipt

The samples were received on 9/26/2023 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil iar: PH02A (890-5341-1) and PH03A (890-5341-2).

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH02A (890-5341-1) and (890-5376-A-21-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-63761 and analytical batch 880-63990 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-63537 and analytical batch 880-63579 was outside control limits. Sample non-homogeneity is suspected.

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

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

Matrix: Solid

Lab Sample ID: 890-5341-1

Client Sample Results

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Client Sample ID: PH02A

Date Collected: 09/25/23 09:50 Date Received: 09/26/23 11:50

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		10/02/23 13:35	10/05/23 18:03	1
Toluene	<0.00200	U *- *1	0.00200	mg/Kg		10/02/23 13:35	10/05/23 18:03	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		10/02/23 13:35	10/05/23 18:03	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		10/02/23 13:35	10/05/23 18:03	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		10/02/23 13:35	10/05/23 18:03	1
Xylenes, Total	<0.00401	U *- *1	0.00401	mg/Kg		10/02/23 13:35	10/05/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/02/23 13:35	10/05/23 18:03	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130			10/02/23 13:35	10/05/23 18:03	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/05/23 18:03	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte		, , ,	•	Unit	n	Propared	Analyzod	Dil Fac
Analyte		Qualifier	RL 50.1	Unit mg/Kg	D	Prepared	Analyzed 09/29/23 10:55	
Analyte Total TPH	Result <50.1	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.1	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH . Method: SW846 8015B NM - Die	Result <50.1	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.1	Qualifier U unics (DRO) Qualifier	RL 50.1	mg/Kg			09/29/23 10:55	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.1 sel Range Orga	Qualifier U unics (DRO) Qualifier U F2	FL 50.1 (GC)	mg/Kg		Prepared	09/29/23 10:55 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result sel Range Orga Result <50.1	Qualifier U unics (DRO) Qualifier U F2 U	RL 50.1 (GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 09/28/23 13:58	09/29/23 10:55 Analyzed 09/29/23 10:55	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U unics (DRO) Qualifier U F2 U	RL 50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	09/29/23 10:55 Analyzed 09/29/23 10:55 09/29/23 10:55	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U unics (DRO) Qualifier U F2 U	RL 50.1 (GC) RL 50.1 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	09/29/23 10:55 Analyzed 09/29/23 10:55 09/29/23 10:55 09/29/23 10:55	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U F2 U	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58 09/28/23 13:58 Prepared	09/29/23 10:55 Analyzed 09/29/23 10:55 09/29/23 10:55 09/29/23 10:55 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U unics (DRO) Qualifier U F2 U U Qualifier	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58 09/28/23 13:58 Prepared 09/28/23 13:58	09/29/23 10:55 Analyzed 09/29/23 10:55 09/29/23 10:55 Analyzed 09/29/23 10:55	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U unics (DRO) Qualifier U F2 U U Qualifier	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58 09/28/23 13:58 Prepared 09/28/23 13:58	09/29/23 10:55 Analyzed 09/29/23 10:55 09/29/23 10:55 Analyzed 09/29/23 10:55	1 Dil Fac

Client Sample ID: PH03A Lab Sample ID: 890-5341-2

Date Collected: 09/25/23 12:05 Date Received: 09/26/23 11:50

Sample Depth: 6'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:23	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:23	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:23	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		10/02/23 13:35	10/05/23 18:23	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:23	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		10/02/23 13:35	10/05/23 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			10/02/23 13:35	10/05/23 18:23	

Eurofins Carlsbad

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: PH03A Date Collected: 09/25/23 12:05

Result Qualifier

1480

Lab Sample ID: 890-5341-2 Matrix: Solid

Sample Depth: 6'

Analyte

Chloride

Date Received: 09/26/23 11:50

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	70		70 - 130			10/02/23 13:35	10/05/23 18:23	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 18:23	1
Method: SW846 8015 NM - Diese	I Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/29/23 12:02	1
Method: SW846 8015B NM - Dies								
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 19,50	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 09/28/23 13:58	Analyzed 09/29/23 12:02	Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10	Result	Qualifier U	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	09/28/23 13:58	09/29/23 12:02	Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	09/28/23 13:58	09/29/23 12:02	1 1 1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	RL 49.9 49.9	mg/Kg	<u> </u>	09/28/23 13:58 09/28/23 13:58	09/29/23 12:02 09/29/23 12:02	Dil Fac
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	09/28/23 13:58 09/28/23 13:58 09/28/23 13:58	09/29/23 12:02 09/29/23 12:02 09/29/23 12:02	1

25.1

Unit

mg/Kg

Prepared

Analyzed

09/29/23 16:10

Dil Fac

Surrogate Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-5341-1	PH02A	95	67 S1-	
90-5341-2	PH03A	90	70	
90-5376-A-21-D MS	Matrix Spike	106	118	
90-5376-A-21-E MSD	Matrix Spike Duplicate	115	120	
.CS 880-63761/1-A	Lab Control Sample	111	116	
CSD 880-63761/2-A	Lab Control Sample Dup	85	108	
/IB 880-63761/5-A	Method Blank	71	93	
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

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5341-1	PH02A	89	94
890-5341-1 MS	PH02A	93	89
890-5341-1 MSD	PH02A	109	103
890-5341-2	PH03A	97	98
LCS 880-63537/2-A	Lab Control Sample	111	124
LCSD 880-63537/3-A	Lab Control Sample Dup	83	94
MB 880-63537/1-A	Method Blank	77	87

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63761/5-A

Lab Sample ID: LCS 880-63761/1-A

Analysis Batch: 63990

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63761

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	•
Toluene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/02/23 13:35	10/05/23 11:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/02/23 13:35	10/05/23 11:42	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	oared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	10/02/2	23 13:35	10/05/23 11:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/02/2	23 13:35	10/05/23 11:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63761

Matrix: Solid Analysis Batch: 63990 LCS LCS Spike Added Result Qualifier Unit %Rec Limits 0.100 0.1055 mg/Kg 105 70 - 130

Analyte Benzene Toluene 0.100 0.1112 mg/Kg 111 70 - 130 Ethylbenzene 0.100 0.1144 mg/Kg 114 70 - 130 m-Xylene & p-Xylene 0.200 0.2374 mg/Kg 119 70 - 130 0.100 o-Xylene 0.1156 mg/Kg 116 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-63761/2-A

Matrix: Solid

Analysis Batch: 63990

Prep Type: Total/NA Prep Batch: 63761

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.07265 *1 Benzene 0.100 mg/Kg 73 70 - 130 37 35 Toluene 0.100 0.06385 *- *1 mg/Kg 64 70 - 130 54 35 0.100 0.05811 *- *1 mg/Kg 58 70 - 130 65 35 Ethylbenzene m-Xylene & p-Xylene 0.200 0.1107 *- *1 mg/Kg 55 70 - 130 73 35 o-Xylene 0.100 0.05425 *- *1 mg/Kg 70 - 130 35

LCSD LCSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 85 70 - 130 1,4-Difluorobenzene (Surr) 108 70 - 130

Lab Sample ID: 890-5376-A-21-D MS

Matrix: Solid

Analysis Batch: 63990

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

Prep Batch: 63761

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *1	0.0998	0.1127		mg/Kg		113	70 - 130	
Toluene	<0.00200	U *- *1	0.0998	0.1083		mg/Kg		109	70 - 130	

Prep Batch: 63761

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: 890-5376-A-21-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 63990

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U *- *1	0.0998	0.1087		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *- *1	0.200	0.2225		mg/Kg		111	70 - 130	
o-Xylene	<0.00200	U *- *1	0.0998	0.1091		mg/Kg		109	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 106 1,4-Difluorobenzene (Surr) 70 - 130 118

Lab Sample ID: 890-5376-A-21-E MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 63990										Batch:	63761
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *1	0.0990	0.1177		mg/Kg		119	70 - 130	4	35
Toluene	<0.00200	U *- *1	0.0990	0.1130		mg/Kg		114	70 - 130	4	35
Ethylbenzene	<0.00200	U *- *1	0.0990	0.1125		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U *- *1	0.198	0.2293		mg/Kg		116	70 - 130	3	35
o-Xylene	<0.00200	U *- *1	0.0990	0.1126		mg/Kg		114	70 - 130	3	35

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 115 1,4-Difluorobenzene (Surr) 120 70 - 130

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

Lab Sample ID: MB 880-63537/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 63579

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/28/23 13:58	09/29/23 08:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/28/23 13:58	09/29/23 08:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/23 13:58	09/29/23 08:01	1

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 77 70 - 130 09/28/23 13:58 09/29/23 08:01 87 70 - 130 09/28/23 13:58 09/29/23 08:01 o-Terphenyl

Lab Sample ID: LCS 880-63537/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 63579

Matrix: Solid

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 97 965.2 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 921.3 mg/Kg 92 70 - 130

C10-C28)

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 63537

Prep Batch: 63537

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

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

LCS LCS

Lab Sample ID: LCS 880-63537/2-A **Matrix: Solid**

Lab Sample ID: LCSD 880-63537/3-A

Analysis Batch: 63579

Matrix: Solid

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63537

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 111 70 - 130 o-Terphenyl 124 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63537

Prep Batch: 63537

Analysis Batch: 63579 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 949.0 95 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 845.0 mg/Kg 84 70 - 1309 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-5341-1 MS Client Sample ID: PH02A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 63579

Sample Sample MS MS Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

Gasoline Range Organics <50.1 U F2 1010 1177 mg/Kg 115 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.1 U 1010 891.6 mg/Kg 84 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 93 o-Terphenyl 89 70 - 130

Lab Sample ID: 890-5341-1 MSD Client Sample ID: PH02A

o-Terphenyl

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 63579** Prep Batch: 63537 Sample Sample Spike MSD MSD %Rec

	Gampio	Gampio	Opino	11102					701100		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.1	U F2	1010	912.0	F2	mg/Kg		89	70 - 130	25	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.1	U	1010	1040		mg/Kg		99	70 - 130	15	20
C10-C28)											

70 - 130

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 109 70 - 130

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QC Sample Results

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63433/1-A

Client Sample ID: Method Blank **Matrix: Solid**

MR MR

Prep Type: Soluble

Analysis Batch: 63639

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	ma/Ka			09/29/23 15:35	1

Lab Sample ID: LCS 880-63433/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63639

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.9 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-63433/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63639

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 238.6 mg/Kg 90 - 110

Lab Sample ID: 890-5341-1 MS Client Sample ID: PH02A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63639

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	277		249	500.4		mg/Kg		90	90 - 110	

Lab Sample ID: 890-5341-1 MSD Client Sample ID: PH02A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 63639

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	277		249	500.9		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

GC VOA

Prep Batch: 63761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Total/NA	Solid	5035	
890-5341-2	PH03A	Total/NA	Solid	5035	
MB 880-63761/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63761/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63761/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5376-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5376-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 63990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Total/NA	Solid	8021B	63761
890-5341-2	PH03A	Total/NA	Solid	8021B	63761
MB 880-63761/5-A	Method Blank	Total/NA	Solid	8021B	63761
LCS 880-63761/1-A	Lab Control Sample	Total/NA	Solid	8021B	63761
LCSD 880-63761/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63761
890-5376-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	63761
890-5376-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63761

Analysis Batch: 64118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Total/NA	Solid	Total BTEX	
890-5341-2 —	PH03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 63537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Total/NA	Solid	8015NM Prep	
890-5341-2	PH03A	Total/NA	Solid	8015NM Prep	
MB 880-63537/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63537/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63537/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5341-1 MS	PH02A	Total/NA	Solid	8015NM Prep	
890-5341-1 MSD	PH02A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Total/NA	Solid	8015B NM	63537
890-5341-2	PH03A	Total/NA	Solid	8015B NM	63537
MB 880-63537/1-A	Method Blank	Total/NA	Solid	8015B NM	63537
LCS 880-63537/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63537
LCSD 880-63537/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63537
890-5341-1 MS	PH02A	Total/NA	Solid	8015B NM	63537
890-5341-1 MSD	PH02A	Total/NA	Solid	8015B NM	63537

Analysis Batch: 63765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Total/NA	Solid	8015 NM	
890-5341-2	PH03A	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Job ID: 890-5341-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

HPLC/IC

Leach Batch: 63433

Lab Sample ID 890-5341-1	Client Sample ID PH02A	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-5341-2	PH03A	Soluble	Solid	DI Leach	
MB 880-63433/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63433/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63433/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5341-1 MS	PH02A	Soluble	Solid	DI Leach	
890-5341-1 MSD	PH02A	Soluble	Solid	DI Leach	

Analysis Batch: 63639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5341-1	PH02A	Soluble	Solid	300.0	63433
890-5341-2	PH03A	Soluble	Solid	300.0	63433
MB 880-63433/1-A	Method Blank	Soluble	Solid	300.0	63433
LCS 880-63433/2-A	Lab Control Sample	Soluble	Solid	300.0	63433
LCSD 880-63433/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63433
890-5341-1 MS	PH02A	Soluble	Solid	300.0	63433
890-5341-1 MSD	PH02A	Soluble	Solid	300.0	63433

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Lab Chronicle

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Client Sample ID: PH02A

Date Collected: 09/25/23 09:50 Date Received: 09/26/23 11:50 Lab Sample ID: 890-5341-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63761	10/02/23 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63990	10/05/23 18:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			64118	10/05/23 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			63765	09/29/23 10:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 10:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63433	09/27/23 12:13	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63639	09/29/23 15:52	CH	EET MID

Client Sample ID: PH03A

Date Collected: 09/25/23 12:05

Lab Sample ID: 890-5341-2

Matrix: Solid

Date Received: 09/26/23 11:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63761	10/02/23 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63990	10/05/23 18:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			64118	10/05/23 18:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			63765	09/29/23 12:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 12:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63433	09/27/23 12:13	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	63639	09/29/23 16:10	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5341-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-24	
		ELAP	T104704400-23-26		
The following analytes	are included in this report, but	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for	
the agency does not of			ed by the governing additionty. This list the	ay include analytes loi	
the agency does not of Analysis Method		Matrix	Analyte	ay include analytes for	
0 ,	fer certification.	•	, , ,	ay include analytes lor	

Method Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

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

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Sample Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

Job ID: 890-5341-1

SDG: 03C1558268

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5341-1	PH02A	Solid	09/25/23 09:50	09/26/23 11:50	6'
890-5341-2	PH03A	Solid	09/25/23 12:05	09/26/23 11:50	6'

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

Revised Date 08/25/2020 Rev. 2020.

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date/Time 126

led by: (Signature)

Relinquished by: (Signature)

Ben Belill Boeineensolvm.com NAPP2322046789 Superfund DI Water: H₂O 15 - 36924 Level IV MeOH: Me HNO 3: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes CONTROL Includent # ō Zn Acetate+NaOH: Zn 1388100 PST/UST TRRP RRC 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 Other: NaHSO 4: NABIS Na 25 20 3: NaSO Hg: 1631 / 245.1 / 7470 / 7471 H,PO4: HP UST/PST ☐ PRP☐ Brownfields ☐ None: NO H,50 4: H Cool: Cool 30-(Work Order Comments HCL: HC ADaPT www.xenco.com Reporting: Level II | Level III Z EDD State of Project: 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 Deliverables: TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U loctice: 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 fservice. 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 Program: ANALYSIS REQUEST Email: Garrett. Green CExxonNovil. Com Carlinad NM 88220 890-5341 Chain of Custody Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Garrott Green (TO Energy BTEX SAMYO Cont Pres. # of Parameters Bill to: (if different) Comp Company Name: Grab/ NIMED City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm 32.18430, -103.87522 Due Date: 5 CAU Yes No Rush HWU Address: Depth Turn Around 0 Routine 2.28 12:05 Corrected Temperature: Time Wet ice: Temperature Reading: Correction Factor: Thermometer ID: NM 882 3122 National Parks 2523 Sampled 854-0852 DOKA Jake Unit 301 Yes No Date Circle Method(s) and Metal(s) to be analyzed 0301558208 Matrix Xenco Ben Beli N/A S Lomp Blank: N/A 200.8 / 6020: Mariaha arishac Yes No Yes No Yes Sample Identification Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: PH02A SAMPLE RECEIPT PHOSA Project Manager: Project Number Project Location: Sampler's Name: Total Containers: ompany Name. City, State ZIP: Project Name: Address: Phone: PO#:

Phone: 575-988-3199 Fax 575-988-3199

Carlsbad NM 88220

State Zip TX 79701

Midland

Eurofins Carlsbad

1089 N Canal St

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Chain of Custody Record

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Environment Testing

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central. LLC PH02A (890-5341-1) Sample Identification - Client ID (Lab ID) Project Name POKER LAKE UNIT 301H Eurofins Environment Testing South Centi Empty Kit Relinquished Possible Hazard Identification PH03a (890-5341-2) 432-704-5440(Tel) Client Information (Sub Contract Lab) telinquished by Deliverable Requested 1211 W Florida Ave elinquished by: hipping/Receiving Custody Seals nconfirmed linquished by: Yes N_O Intact. Custody Seal No Other (specify) Project # 89000093 Date/Time Phone Primary Deliverable Rank **NO** # FAT Requested (days) Due Date Requested 10/2/2023 Sample Date 9/25/23 9/25/23 Date Mountain 12 05 Sample 09 50 (C=comp G=grab) Sample Type Preservation Code: Company Company Company Matrix Solid Solid Kramer Jessica Jessica Kramer@et.eurofinsus.com me Field Filtered Sample (Yes or No) NELAP - Texas Accreditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. × × 8015MOD Calc × × × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6035FP_Calc (MOD) BTEX × × Analysis Requested Total BTEX GCV State of Origin.
New Mexico Carrier Tracking No(s) nod of Shipment Date/Time Date/Time Date/Time Total Number of containers COC No 890-1529 1 IO m m C C m ≻ Preservation Codes Page 1 of 1 ice
DI Water
EDTA
EDA Zn Acetate
Nitric Acid
NaHSO4
MeOH NaOF HOL Ascorbic Acid Amchlor I Hexane
I None
I NaNaO2
I Na2O4S
I Na2SO3
I Na2SO3
I Na2SO3
I Na2SO03
I TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
V Trizma
V Trizma Company Ver 06/08/202 other (specify) Months

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5341-1 SDG Number: 03C1558268

Login Number: 5341 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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: 890-5341-1 SDG Number: 03C1558268

Login Number: 5341 **List Source: Eurofins Midland** List Number: 2 List Creation: 09/27/23 10:53 AM

Creator: Kramer, Jessica

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/6/2023 2:44:32 PM

JOB DESCRIPTION

Poker Lake Unit 301H SDG NUMBER 03C1558268

JOB NUMBER

890-5347-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

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

Laboratory Job ID: 890-5347-1 Client: Ensolum SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

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Definitions/Glossary

Job ID: 890-5347-1 Client: Ensolum Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Qualifiers

GC VOA Qualifier

LCS and/or LCSD is outside acceptance limits, low biased.

*1 LCS/LCSD RPD exceeds control limits.

Qualifier Description

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

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)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit

NC Not Calculated

MQL

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TFF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Job ID: 890-5347-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5347-1

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

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

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

Receipt

The samples were received on 9/26/2023 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH02 (890-5347-1) and PH03 (890-5347-2).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH02 (890-5347-1), PH03 (890-5347-2) and (890-5376-A-21-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-63761 and analytical batch 880-63990 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-33751-A-21-E MS) and (880-33751-A-21-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH02 (890-5347-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-63538 and analytical batch 880-63575 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-5347-1

Client Sample Results

Client: Ensolum Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: PH02

Date Collected: 09/25/23 09:15 Date Received: 09/26/23 11:50

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:44	1
Toluene	< 0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:44	1
Ethylbenzene	< 0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:44	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		10/02/23 13:35	10/05/23 18:44	1
o-Xylene	< 0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 18:44	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		10/02/23 13:35	10/05/23 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/02/23 13:35	10/05/23 18:44	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130			10/02/23 13:35	10/05/23 18:44	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 18:44	1
Method: SW846 8015 NM - Diese	al Range Organ	ico (DBO) (00)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/29/23 14:50	
Analyte Total TPH	Result <49.7	Qualifier U	49.7		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7	Qualifier U	49.7		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.7	Qualifier Unics (DRO) Qualifier	RL 49.7	mg/Kg		<u> </u>	09/29/23 14:50	1 Dil Fac
Analyte	Result <49.7 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC)	mg/Kg		Prepared	09/29/23 14:50 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.7	mg/Kg Unit mg/Kg		Prepared 09/28/23 14:02	09/29/23 14:50 Analyzed 09/29/23 14:50	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 14:02 09/28/23 14:02	09/29/23 14:50 Analyzed 09/29/23 14:50 09/29/23 14:50	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 14:02 09/28/23 14:02	09/29/23 14:50 Analyzed 09/29/23 14:50 09/29/23 14:50 09/29/23 14:50	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 14:02 09/28/23 14:02 09/28/23 14:02 Prepared	09/29/23 14:50 Analyzed 09/29/23 14:50 09/29/23 14:50 09/29/23 14:50 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier S1-	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 14:02 09/28/23 14:02 09/28/23 14:02 Prepared 09/28/23 14:02	09/29/23 14:50 Analyzed 09/29/23 14:50 09/29/23 14:50 09/29/23 14:50 Analyzed 09/29/23 14:50	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier S1-	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 14:02 09/28/23 14:02 09/28/23 14:02 Prepared 09/28/23 14:02	09/29/23 14:50 Analyzed 09/29/23 14:50 09/29/23 14:50 09/29/23 14:50 Analyzed 09/29/23 14:50	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: PH03 Lab Sample ID: 890-5347-2

Date Collected: 09/25/23 10:30 Date Received: 09/26/23 11:50

Released to Imaging: 3/1/2024 11:40:41 AM

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac Benzene <0.00198 U*1 0.00198 mg/Kg 10/02/23 13:35 10/05/23 19:04 Toluene 0.00244 *- *1 0.00198 mg/Kg 10/02/23 13:35 10/05/23 19:04 Ethylbenzene 0.00761 *- *1 0.00198 mg/Kg 10/02/23 13:35 10/05/23 19:04 0.00396 10/02/23 13:35 mg/Kg 10/05/23 19:04 m-Xylene & p-Xylene 0.0107 *- *1 0.00198 10/02/23 13:35 10/05/23 19:04 o-Xylene 0.0274 *- *1 mg/Kg 0.00396 10/02/23 13:35 10/05/23 19:04 **Xylenes, Total** 0.0381 *- *1 mg/Kg %Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 140 S1+ 70 - 130 10/02/23 13:35 10/05/23 19:04

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Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-5347-2

09/29/23 16:22

Client Sample Results

Client: Ensolum Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: PH03

5610

Date Collected: 09/25/23 10:30 Date Received: 09/26/23 11:50

Sample Depth: 4'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			10/02/23 13:35	10/05/23 19:04	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0482		0.00396	mg/Kg			10/05/23 19:04	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	300		50.3	mg/Kg			09/29/23 15:38	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3	mg/Kg		09/28/23 14:02	09/29/23 15:38	1
GRO)-C6-C10								
Diesel Range Organics (Over	300		50.3	mg/Kg		09/28/23 14:02	09/29/23 15:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		09/28/23 14:02	09/29/23 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			09/28/23 14:02	09/29/23 15:38	1
o-Terphenyl	81		70 - 130			09/28/23 14:02	09/29/23 15:38	1

50.4

mg/Kg

Surrogate Summary

Client: Ensolum Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5347-1	PH02	89	66 S1-	
890-5347-2	PH03	140 S1+	100	
890-5376-A-21-D MS	Matrix Spike	106	118	
890-5376-A-21-E MSD	Matrix Spike Duplicate	115	120	
LCS 880-63761/1-A	Lab Control Sample	111	116	
LCSD 880-63761/2-A	Lab Control Sample Dup	85	108	
MB 880-63761/5-A	Method Blank	71	93	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-33751-A-21-E MS	Matrix Spike	64 S1-	60 S1-
880-33751-A-21-F MSD	Matrix Spike Duplicate	64 S1-	60 S1-
890-5347-1	PH02	66 S1-	74
890-5347-2	PH03	75	81
LCS 880-63538/2-A	Lab Control Sample	104	112
LCSD 880-63538/3-A	Lab Control Sample Dup	96	102
MB 880-63538/1-A	Method Blank	97	118

Surrogate Legend

1CO = 1-Chlorooctane

DFBZ = 1,4-Difluorobenzene (Surr)

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63761/5-A

Matrix: Solid Analysis Batch: 63990 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63761

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
Toluene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/02/23 13:35	10/05/23 11:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/02/23 13:35	10/05/23 11:42	

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prep	oared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	10/02/2	23 13:35	10/05/23 11:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/02/2	23 13:35	10/05/23 11:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 63761

Prep Type: Total/NA

Prep Batch: 63761

Matrix: Solid Analysis Batch: 63990

Lab Sample ID: LCS 880-63761/1-A

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1055 mg/Kg 105 70 - 130 Toluene 0.100 0.1112 mg/Kg 111 70 - 130 0.100 Ethylbenzene 0.1144 mg/Kg 114 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.2374 mg/Kg 119 0.100 70 - 130 o-Xylene 0.1156 mg/Kg 116

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Lab Sample ID: LCSD 880-63761/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 63990

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07265	*1	mg/Kg		73	70 - 130	37	35
Toluene	0.100	0.06385	*- *1	mg/Kg		64	70 - 130	54	35
Ethylbenzene	0.100	0.05811	*- *1	mg/Kg		58	70 - 130	65	35
m-Xylene & p-Xylene	0.200	0.1107	*- *1	mg/Kg		55	70 - 130	73	35
o-Xvlene	0.100	0.05425	*- *1	ma/Ka		54	70 - 130	72	35

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-5376-A-21-D MS

Matrix: Solid

Analysis Batch: 63990

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

Prep Batch: 63761

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *1	0.0998	0.1127		mg/Kg		113	70 - 130	
Toluene	<0.00200	U *- *1	0.0998	0.1083		mg/Kg		109	70 - 130	

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Prep Batch: 63761

QC Sample Results

Client: Ensolum Job ID: 890-5347-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: 890-5376-A-21-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 63990

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00200 U*-*1 Ethylbenzene 0.0998 0.1087 70 - 130 mg/Kg 109 m-Xylene & p-Xylene <0.00401 U *- *1 0.200 0.2225 mg/Kg 111 70 - 130 0.0998 o-Xylene <0.00200 U *- *1 0.1091 mg/Kg 109 70 - 130

MS MS

Surrogate	%Recovery Q	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 890-5376-A-21-E MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 63990

Analysis Batch: 63990									Prep	Batch:	63761
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *1	0.0990	0.1177		mg/Kg		119	70 - 130	4	35
Toluene	<0.00200	U *- *1	0.0990	0.1130		mg/Kg		114	70 - 130	4	35
Ethylbenzene	<0.00200	U *- *1	0.0990	0.1125		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U *- *1	0.198	0.2293		mg/Kg		116	70 - 130	3	35
o-Xylene	<0.00200	U *- *1	0.0990	0.1126		mg/Kg		114	70 - 130	3	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	120	70 - 130

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

Lab Sample ID: MB 880-63538/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 63575

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/28/23 14:02	09/29/23 07:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/28/23 14:02	09/29/23 07:54	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/28/23 14:02	09/29/23 07:54	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	09/28/23 14.	02 09/29/23 07:54	1
o-Terphenyl	118		70 - 130	09/28/23 14.	02 09/29/23 07:54	1

Lab Sample ID: LCS 880-63538/2-A

Matrix: Solid

Analysis Batch: 63575							Prep	Batch: 63538
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1130		mg/Kg		113	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1110		mg/Kg		111	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Batch: 63538

Job ID: 890-5347-1 Client: Ensolum Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Limits

Limits

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-63538/2-A

Lab Sample ID: LCSD 880-63538/3-A

Lab Sample ID: 880-33751-A-21-E MS

Matrix: Solid

Analysis Batch: 63575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63538

1-Chlorooctane 104 70 - 130 o-Terphenyl 112 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63538

Analysis Batch: 63575 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 953.1 95 70 - 13017 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1082 108 mg/Kg 70 - 13020 3

C10-C28)

Matrix: Solid

Analysis Batch: 63575

Surrogate

Matrix: Solid

LCSD LCSD Surrogate %Recovery Qualifier

70 - 130 1-Chlorooctane 96 102 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63538

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.6 U F1 1010 641.7 F1 mg/Kg 62 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 UF1 1010 603.8 F1 mg/Kg 56 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits S1-70 - 130 1-Chlorooctane 64 o-Terphenyl 60 S1-70 - 130

Lab Sample ID: 880-33751-A-21-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 63575

Prep Type: Total/NA

Prep Batch: 63538

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics U F1 1010 630.6 F1 <49.6 60 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 UF1 1010 610.1 F1 mg/Kg 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 64 S1-70 - 130 60 S1-70 - 130 o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-5347-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63433/1-A

Matrix: Solid

Analysis Batch: 63639

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 09/29/23 15:35

Lab Sample ID: LCS 880-63433/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63639

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.9 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-63433/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63639

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 238.6 mg/Kg 90 - 110

Lab Sample ID: 890-5341-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 63639

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 277 249 500.4 90 - 110 mg/Kg

Lab Sample ID: 890-5341-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 63639

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 277 500.9 mg/Kg 90 90 - 110 0 20

Client: Ensolum
Project/Site: Poker Lake Unit 301H

Job ID: 890-5347-1 SDG: 03C1558268

GC VOA

Prep Batch: 63761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Total/NA	Solid	5035	
890-5347-2	PH03	Total/NA	Solid	5035	
MB 880-63761/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63761/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63761/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5376-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5376-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 63990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Total/NA	Solid	8021B	63761
890-5347-2	PH03	Total/NA	Solid	8021B	63761
MB 880-63761/5-A	Method Blank	Total/NA	Solid	8021B	63761
LCS 880-63761/1-A	Lab Control Sample	Total/NA	Solid	8021B	63761
LCSD 880-63761/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63761
890-5376-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	63761
890-5376-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63761

Analysis Batch: 64119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Total/NA	Solid	Total BTEX	
890-5347-2	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 63538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Total/NA	Solid	8015NM Prep	
890-5347-2	PH03	Total/NA	Solid	8015NM Prep	
MB 880-63538/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63538/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63538/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33751-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-33751-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Total/NA	Solid	8015B NM	63538
890-5347-2	PH03	Total/NA	Solid	8015B NM	63538
MB 880-63538/1-A	Method Blank	Total/NA	Solid	8015B NM	63538
LCS 880-63538/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63538
LCSD 880-63538/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63538
880-33751-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	63538
880-33751-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	63538

Analysis Batch: 63737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Total/NA	Solid	8015 NM	
890-5347-2	PH03	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

HPLC/IC

Leach Batch: 63433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Soluble	Solid	DI Leach	
890-5347-2	PH03	Soluble	Solid	DI Leach	
MB 880-63433/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63433/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63433/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5341-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5341-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 63639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5347-1	PH02	Soluble	Solid	300.0	63433
890-5347-2	PH03	Soluble	Solid	300.0	63433
MB 880-63433/1-A	Method Blank	Soluble	Solid	300.0	63433
LCS 880-63433/2-A	Lab Control Sample	Soluble	Solid	300.0	63433
LCSD 880-63433/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63433
890-5341-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	63433
890-5341-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63433

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Client: Ensolum Job ID: 890-5347-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: PH02 Lab Sample ID: 890-5347-1

Date Collected: 09/25/23 09:15 Matrix: Solid Date Received: 09/26/23 11:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63761	10/02/23 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63990	10/05/23 18:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			64119	10/05/23 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			63737	09/29/23 14:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	63433	09/27/23 12:13	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	63639	09/29/23 16:16	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-5347-2 Matrix: Solid

Date Collected: 09/25/23 10:30 Date Received: 09/26/23 11:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	63761	10/02/23 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63990	10/05/23 19:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			64119	10/05/23 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			63737	09/29/23 15:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63538	09/28/23 14:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63575	09/29/23 15:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63433	09/27/23 12:13	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	63639	09/29/23 16:22	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 Job ID: 890-5347-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	• •	t the laboratory is not certain	ed by the governing additionty. This list his	ay include analytes for v
the agency does not of Analysis Method	• •	Matrix	Analyte	ay include analytes for v
9 ,	fer certification.	,	, , ,	ay ilicidue allalytes for v

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Method Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

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

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Sample Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

Job ID: 890-5347-1

SDG: 03C1558268

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-5347-1	PH02	Solid	09/25/23 09:15	09/26/23 11:50	4'
890-5347-2	PH03	Solid	09/25/23 10:30	09/26/23 11:50	4'

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing

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Xenco

Houston, TX (281) 240-4200, Dailas, TX (214) 902-0300

Chain of Custody

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

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Pevised Date: 08/25/2020 Rev. 2020.2

Date/Time

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Received by: (Signature) 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. votice: 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 if 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 Relinquished by: (Signature) Date/Time y: (Signature) Relinquished by: (Signature)

Project Manager:	7 Relill		Bill to: (if different))t)	SAMEH	ett Green	Work Order Comments	Comments
11	m LLC		Company Name:	ài	X70	0	Program: UST/PST	Brownfields ☐ RRC ☐ Superfund ☐
372 N	ational Park	DALKSHWU	Address:		3104	r E. Gyldene St		
TO VICTOR	Z		City, State ZIP:		Jav	02788 MM 502110	Reporting: LevelⅡ ☐ LevelⅢ ☐	PST/UST TRRP Level IV
989-	854-085		Email: DAYYET	5- GYR	200	ett Greene Exxon Mobil com	Deliverables: EDD ADa	ADaPT Other:
Project Name: Do VP.V	JOKEN Jake Innit 301H	LH Turn Around	round			ANALYSIS REQUEST	T	Preservative Codes
. Jec	120.1550210B	Rout	Rush	Pres.				None: NO DI Water: H ₂ O
10	10 - 1/13 . 875/Due Date:	Due Date:	Arians					Cool: Cool MeOH: Me
		TAT starts the day received by	ay received by					HCL: HC HNO 3: HN
		the lab, if received by 4:30pm	ved by 4:30pm	9				H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT LEAD	Temp Blank: Yes No	Wet Ice:	Yes No	eter				H₃PO₄: HP
tact:	No Thermometer ID:	er ID:	MACC	men	S	890-5347 Chain of Custody		NaHSO 4: NABIS
Cooler Custody Seals: Yes No	1		S.0.3	Pa	3			Na ₂ S ₂ O ₃ : NaSO 3
Sample Custody Seals: Yes No	N/A 1, Temperature Reading:	e Reading:	16.4		nl.	_		Zn Acetate+NaOH: Zn
Total Containers:	Corrected T	Corrected Temperature:	o's		KOI	X3		NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix Sampled	Time	Depth Grab/	# of Cont	U)	119		Sample Comments
DH07	5 0 26/2	約39.15	4		X	X		Incident #:
DH03	0	10:30	4. 6	-	×	×		NAPP 232210410789
			>					cost center:
								113881001
								API : 50-015-36924
								Ben Belill:
								pobelille ensolvin com
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1								
Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11	1 Texas 11	Al Sb A	s Ba B	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	Wn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z	r TI Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	to be analyzed	TCLP / SPLP 6010		: 8RCRA Sb	As Ba	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni se Ag II U		1/4// 0/4//

Chain of Custody Record

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Environment Testing

State, Zip. **TX** 79701 PH03 (890-5347-2) PH02 (890-5347-1) Sample Identification - Client ID (Lab ID) dote: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC inboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC. POKER LAKE UNIT 301H 432-704-5440(Tel) elinquished by Empty Kit Relinqui Deliverable Requested ossible Hazard Identification Midland 1211 W Florida Ave Eurofins Environment Testing South Centr Shipping/Receiving elinquished by Client Information (Sub Contract Lab) Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 elinquished by Custody Seals Intact Yes 8 , II III IV Other (specify) Custody Seal No Project # 89000093 Date/Time Primary Deliverable Rank. 2 Due Date Requested Phone Sampler Date/Time TAT Requested (days): 10/2/2023 9/25/23 9/25/23 Date Mountain 10 30 Mountain Sample 09 15 (C=comp, Type Sample Preservation Code: Company Company Matrix Solid Solid Lab PM Kramer Jessica Jessica Kramer@et.eurofinsus com Ime NELAP - Texas ccreditations Required (See note): Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal Bullah Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH Return To Client × × 8016MOD_Calc × × 300_ORGFM_28D/DI_LEACH Chloride × × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested × Total_BTEX_GCV × Disposal By Lab State of Origin
New Mexico arrier Tracking No(s) Date/Time Date/Time Archive For gilley G Total Number of containers dist. A HCL
B NaOH
C Zn Acetate
D Nitric Acid
F MeOH
G Amchior
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA Page 1 of 1 COC No 890-1529 1 Preservation Codes 390-5347-1 Special Instructions/Note Company Ver: 06/08/2021 Months

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5347-1 SDG Number: 03C1558268

Login Number: 5347 List Source: Eurofins Carlsbad

List Number: 1 Creator: Bruns, Shannon

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	N/A	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5347-1 SDG Number: 03C1558268

> **List Source: Eurofins Midland** List Creation: 09/27/23 10:53 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 5347

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

Page 22 of 22

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/5/2023 1:38:55 PM

JOB DESCRIPTION

Poker Lake Unit 301H SDG NUMBER 03C1558268

JOB NUMBER

890-5353-1

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 10/5/2023 1:38:55 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Ensolum
Project/Site: Poker Lake Unit 301H

Laboratory Job ID: 890-5353-1
SDG: 03C1558268

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Definitions/Glossary

Client: Ensolum Job ID: 890-5353-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

roject/Site: Poker Lake Unit 301H SDG: 03

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

 F2
 MS/MSD RPD exceeds control limits

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

HPLC/IC

*- LCS and/or LCSD is outside acceptance limits, low biased.

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.

Eisted 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

Eurofins Carlsbad

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Case Narrative

Client: Ensolum Job ID: 890-5353-1

Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Job ID: 890-5353-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5353-1

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

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

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

Receipt

The samples were received on 9/26/2023 4:20 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 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-5353-1), FS02 (890-5353-2), FS03 (890-5353-3), FS04 (890-5353-4), SW01 (890-5353-5) and SW02 (890-5353-6).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63922 recovered above the upper control limit for Benzene, Toluene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63923 and analytical batch 880-63922 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS03 (890-5353-3), FS04 (890-5353-4) and SW02 (890-5353-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-63537 and analytical batch 880-63579 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300 ORGFM 28D: The laboratory control sample (LCS) associated with preparation batch 880-63490 and analytical batch 880-63636 was outside acceptance criteria. Re-extraction and/or re-analysis was not performed. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Client: Ensolum Job ID: 890-5353-1

Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS01 Lab Sample ID: 890-5353-1 Date Collected: 09/26/23 12:50 Date Received: 09/26/23 16:20

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:08	1
Toluene	< 0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:08	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/23 08:42	10/04/23 18:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/23 08:42	10/04/23 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/04/23 08:42	10/04/23 18:08	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/04/23 08:42	10/04/23 18:08	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/04/23 18:08	1
Method: SW846 8015 NM - Diese				Unit	n	Prenared	Analyzod	Dil Fac
					_			
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 49.6	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/29/23 17:10	Dil Fac
Analyte Total TPH	Result 144	Qualifier	49.6		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result 144 sel Range Orga	Qualifier nics (DRO)	RL 49.6	mg/Kg		· ·	09/29/23 17:10	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result 144 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC)	mg/Kg	<u>D</u>	Prepared	09/29/23 17:10 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 144 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.6	mg/Kg		· ·	09/29/23 17:10	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 144 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC)	mg/Kg		Prepared	09/29/23 17:10 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result 144 sel Range Orga Result Result 49.6	Qualifier nics (DRO) Qualifier U	(GC) RL 49.6	mg/Kg Unit mg/Kg		Prepared 09/28/23 13:58	09/29/23 17:10 Analyzed 09/29/23 17:10	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 144 sel Range Orga Result <49.6	Qualifier nics (DRO) Qualifier U	RL 49.6 (GC) RL 49.6 49.6	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	09/29/23 17:10 Analyzed 09/29/23 17:10 09/29/23 17:10	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 144	Qualifier nics (DRO) Qualifier U	RL 49.6 (GC) RL 49.6 49.6 49.6	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	09/29/23 17:10 Analyzed 09/29/23 17:10 09/29/23 17:10 09/29/23 17:10	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 144	Qualifier nics (DRO) Qualifier U	RL 49.6 (GC) RL 49.6 49.6 49.6 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58 09/28/23 13:58 Prepared	Analyzed 09/29/23 17:10 Analyzed 09/29/23 17:10 09/29/23 17:10 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 144	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.6 (GC) RL 49.6 49.6 49.6 Limits 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58 09/28/23 13:58 Prepared 09/28/23 13:58	09/29/23 17:10 Analyzed 09/29/23 17:10 09/29/23 17:10 09/29/23 17:10 Analyzed 09/29/23 17:10	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.6 (GC) RL 49.6 49.6 49.6 Limits 70.130 70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58 09/28/23 13:58 Prepared 09/28/23 13:58	09/29/23 17:10 Analyzed 09/29/23 17:10 09/29/23 17:10 09/29/23 17:10 Analyzed 09/29/23 17:10	

Lab Sample ID: 890-5353-2 **Client Sample ID: FS02**

Date Collected: 09/26/23 12:45 Date Received: 09/26/23 16:20

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/04/23 08:42	10/04/23 18:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/04/23 08:42	10/04/23 18:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/04/23 08:42	10/04/23 18:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/04/23 08:42	10/04/23 18:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/04/23 08:42	10/04/23 18:29	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/04/23 08:42	10/04/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			10/04/23 08:42	10/04/23 18:29	1

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Matrix: Solid

Lab Sample ID: 890-5353-2

Client Sample Results

Client: Ensolum Job ID: 890-5353-1

Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS02

Date Collected: 09/26/23 12:45 Date Received: 09/26/23 16:20

Sample Depth: 4

Method: SW846 8021B - Volatile (Organic Compounds	(GC)	(Continued)
modification of the country to the country to	rigariio Compoundo		(Continuou)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107	70 - 130	10/04/23 08:42	10/04/23 18:29	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			10/04/23 18:29	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	169		50.4	mg/Kg			09/29/23 17:33	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		09/28/23 13:58	09/29/23 17:33	1
Diesel Range Organics (Over C10-C28)	169		50.4	mg/Kg		09/28/23 13:58	09/29/23 17:33	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		09/28/23 13:58	09/29/23 17:33	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95	70 - 130	09/28/23 13:58	09/29/23 17:33	1
o-Terphenyl	97	70 - 130	09/28/23 13:58	09/29/23 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	942	*_	5.03	mg/Kg			09/29/23 16:19	1

Client Sample ID: FS03 Lab Sample ID: 890-5353-3 **Matrix: Solid**

Date Collected: 09/26/23 12:55 Date Received: 09/26/23 16:20

Sample Depth: 1

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Welliou: Swo46 6021B - Volatile	•	• •	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/23 08:42	10/04/23 18:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 18:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/23 08:42	10/04/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/04/23 08:42	10/04/23 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/04/23 08:42	10/04/23 18:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/04/23 08:42	10/04/23 18:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/04/23 18:49	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.0		50.1	mg/Kg			09/29/23 17:55	1

Lab Sample ID: 890-5353-3

Client Sample Results

Client: Ensolum Job ID: 890-5353-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS03

Date Collected: 09/26/23 12:55 Date Received: 09/26/23 16:20

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		09/28/23 13:58	09/29/23 17:55	1
(GRO)-C6-C10								
Diesel Range Organics (Over	93.0		50.1	mg/Kg		09/28/23 13:58	09/29/23 17:55	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		09/28/23 13:58	09/29/23 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			09/28/23 13:58	09/29/23 17:55	1
o-Terphenyl	68	S1-	70 - 130			09/28/23 13:58	09/29/23 17:55	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte								

Client Sample ID: FS04

Date Collected: 09/26/23 13:00

Lab Sample ID: 890-5353-4

Matrix: Solid

Date Received: 09/26/23 16:20

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Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/04/23 08:42	10/04/23 19:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/04/23 08:42	10/04/23 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/04/23 08:42	10/04/23 19:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130			10/04/23 08:42	10/04/23 19:10	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			10/04/23 19:10	1
				mg/Kg			10/04/23 19:10	1
Total BTEX : : Method: SW846 8015 NM - Diese				mg/Kg			10/04/23 19:10	1
	el Range Organ Result	ics (DRO) (mg/Kg Unit	D	Prepared	10/04/23 19:10 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.7	ics (DRO) ((Qualifier	RL 49.7	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.7 sel Range Orga	ics (DRO) ((Qualifier	RL 49.7	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.7 sel Range Orga	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 49.7	Unit mg/Kg		<u> </u>	Analyzed 09/29/23 18:17	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.7 sel Range Orga Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL (GC) RL	Unit mg/Kg		Prepared	Analyzed 09/29/23 18:17 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	Analyzed 09/29/23 18:17 Analyzed 09/29/23 18:17 09/29/23 18:17	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.7 sel Range Orga Result <49.7	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL 49.7 (GC) RL 49.7	Unit mg/Kg Unit mg/Kg		Prepared 09/28/23 13:58	Analyzed 09/29/23 18:17 Analyzed 09/29/23 18:17	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 49.7 (GC) RL 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	Analyzed 09/29/23 18:17 Analyzed 09/29/23 18:17 09/29/23 18:17	Dil Fac Dil Fac 1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7 <49.7 <%Recovery	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 49.7 (GC) RL 49.7 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/28/23 13:58 09/28/23 13:58	Analyzed 09/29/23 18:17 Analyzed 09/29/23 18:17 09/29/23 18:17	Dil Fac Dil Fac 1

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Matrix: Solid

Lab Sample ID: 890-5353-4

Client Sample Results

Client: Ensolum Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS04

Date Collected: 09/26/23 13:00 Date Received: 09/26/23 16:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	171	*_	4.97	mg/Kg			09/29/23 16:32	1		

Lab Sample ID: 890-5353-5 **Client Sample ID: SW01**

Date Collected: 09/26/23 13:30 Date Received: 09/26/23 16:20

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/04/23 08:42	10/04/23 19:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 19:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/04/23 08:42	10/04/23 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/04/23 08:42	10/04/23 19:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/04/23 08:42	10/04/23 19:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/04/23 19:30	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			09/29/23 18:39	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/28/23 13:58	09/29/23 18:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/28/23 13:58	09/29/23 18:39	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/28/23 13:58	09/29/23 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			09/28/23 13:58	09/29/23 18:39	1
o-Terphenyl	77		70 - 130			09/28/23 13:58	09/29/23 18:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111	*_	4.95	mg/Kg			09/29/23 16:38	1

Lab Sample ID: 890-5353-6

Client Sample Results

Client: Ensolum Job ID: 890-5353-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SW02

Date Collected: 09/26/23 14:10 Date Received: 09/26/23 16:20

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 19:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 19:50	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 19:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/04/23 08:42	10/04/23 19:50	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/04/23 08:42	10/04/23 19:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/04/23 08:42	10/04/23 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			10/04/23 08:42	10/04/23 19:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/04/23 08:42	10/04/23 19:50	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/04/23 19:50	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) ((GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			09/29/23 19:01	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		09/28/23 13:58	09/29/23 19:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		09/28/23 13:58	09/29/23 19:01	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		09/28/23 13:58	09/29/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			09/28/23 13:58	09/29/23 19:01	1
o-Terphenyl	63	S1-	70 - 130			09/28/23 13:58	09/29/23 19:01	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122	*_	5.04	mg/Kg			09/29/23 16:45	1

Surrogate Summary

Client: Ensolum Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-33935-A-2-D MS	Matrix Spike	96	107	
380-33935-A-2-E MSD	Matrix Spike Duplicate	107	101	
890-5353-1	FS01	101	107	
390-5353-2	FS02	104	107	
390-5353-3	FS03	98	107	
390-5353-4	FS04	110	108	
390-5353-5	SW01	96	103	
390-5353-6	SW02	107	109	
_CS 880-63923/1-A	Lab Control Sample	108	106	
CSD 880-63923/2-A	Lab Control Sample Dup	90	95	
MB 880-63923/5-A	Method Blank	104	134 S1+	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5341-A-1-F MS	Matrix Spike	93	89	
890-5341-A-1-G MSD	Matrix Spike Duplicate	109	103	
890-5353-1	FS01	103	107	
890-5353-2	FS02	95	97	
890-5353-3	FS03	69 S1-	68 S1-	
890-5353-4	FS04	62 S1-	62 S1-	
890-5353-5	SW01	78	77	
890-5353-6	SW02	66 S1-	63 S1-	
LCS 880-63537/2-A	Lab Control Sample	111	124	
LCSD 880-63537/3-A	Lab Control Sample Dup	83	94	
MB 880-63537/1-A	Method Blank	77	87	

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63923/5-A

Lab Sample ID: LCS 880-63923/1-A

Matrix: Solid Analysis Batch: 63922 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63923

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 11:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 11:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/04/23 08:42	10/04/23 11:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/04/23 08:42	10/04/23 11:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/04/23 08:42	10/04/23 11:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/04/23 08:42	10/04/23 11:43	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130	10/04/23 08:42	10/04/23 11:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63923

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09581	-	mg/Kg		96	70 - 130	
Toluene	0.100	0.08367		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.08551		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09326		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-63923/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 63922

Analysis Batch: 63922

Prep Type: Total/NA Prep Batch: 63923

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1064		mg/Kg		106	70 - 130	10	35	
Toluene	0.100	0.09190		mg/Kg		92	70 - 130	9	35	
Ethylbenzene	0.100	0.07947		mg/Kg		79	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.1743		mg/Kg		87	70 - 130	10	35	
o-Xylene	0.100	0.09054		mg/Kg		91	70 - 130	3	35	

LCSD LCSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 90 70 - 130 1,4-Difluorobenzene (Surr) 95 70 - 130

Lab Sample ID: 880-33935-A-2-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 63922

Prep Batch: 63923 Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00198 U 0.0998 Benzene 0.1152 mg/Kg 115 70 - 130 Toluene <0.00198 U 0.0998 0.09615 mg/Kg 96 70 - 130

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Prep Type: Total/NA

Job ID: 890-5353-1 Client: Ensolum Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: 880-33935-A-2-E MSD

Matrix: Solid

Analysis Batch: 63922

Lab Sample ID: 880-33935-A-2-D MS Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 63923

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00198 U 0.0998 0.09123 91 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00396 U 0.200 0.1970 mg/Kg 99 70 - 130 0.09331 o-Xylene <0.00198 U 0.0998 93 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63923

Analysis Batch: 63922

Matrix: Solid

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00198 U 0.100 0.08375 mg/Kg 84 70 - 130 32 35 Toluene <0.00198 0.100 0.07419 mg/Kg 74 70 - 130 26 35 Ethylbenzene <0.00198 0.100 0.07248 72 70 - 130 23 35 U mg/Kg m-Xylene & p-Xylene <0.00396 U 0.200 0.1627 mg/Kg 81 70 - 130 19 35 0.100 0.08011 79 70 - 130 o-Xylene <0.00198 U mg/Kg 15

MSD MSD

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

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

Lab Sample ID: MB 880-63537/1-A

Matrix: Solid

Analysis Batch: 63579

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

Prep Batch: 63537

MB MB Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed <50.0 U 50.0 09/28/23 13:58 09/29/23 08:01 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 09/28/23 13:58 09/29/23 08:01 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 09/28/23 13:58 09/29/23 08:01 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	09/28/23 13:58	09/29/23 08:01	1
o-Terphenyl	87		70 - 130	09/28/23 13:58	09/29/23 08:01	1

Lab Sample ID: LCS 880-63537/2-A

Matrix: Solid

Analysis Batch: 63579

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

Prep Batch: 63537

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	965.2		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	921.3		mg/Kg		92	70 - 130	
C10-C28)								

Job ID: 890-5353-1 Client: Ensolum Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

LCS LCS

Lab Sample ID: LCS 880-63537/2-A **Matrix: Solid**

Analysis Batch: 63579

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

Prep Batch: 63537

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 111 70 - 130 o-Terphenyl 124 70 - 130

Lab Sample ID: LCSD 880-63537/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 63579

Prep Type: Total/NA

Prep Batch: 63537

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 949.0 95 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 845.0 mg/Kg 84 70 - 1309 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 83 94 70 - 130 o-Terphenyl

Lab Sample ID: 890-5341-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 63579

Prep Type: Total/NA

Prep Batch: 63537

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics <50.1 U F2 1010 1177 mg/Kg 115 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.1 U 1010 891.6 mg/Kg 84 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 93 o-Terphenyl 89 70 - 130

Lab Sample ID: 890-5341-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 63579

Prep Type: Total/NA

Prep Batch: 63537

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics U F2 1010 912.0 F2 <50.1 89 70 - 130 25 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.1 U 1010 1040 mg/Kg 99 70 - 130 15 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 109 70 - 130 103 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-5353-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63490/1-A

Matrix: Solid

Analysis Batch: 63636

MB MB

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 09/29/23 13:34
 1

Lab Sample ID: LCS 880-63490/2-A

Matrix: Solid

Analysis Batch: 63636

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 213.5 mg/Kg 85 90 - 110

Lab Sample ID: LCSD 880-63490/3-A

Matrix: Solid

Analysis Batch: 63636

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 229.4 mg/Kg 90 - 110

Lab Sample ID: 890-5350-A-11-B MS

Matrix: Solid

Analysis Batch: 63636

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Result Unit %Rec Limits Chloride 161 251 411.8 100 90 - 110 mg/Kg

Lab Sample ID: 890-5350-A-11-C MSD

Matrix: Solid

Analysis Batch: 63636

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 251 Chloride 161 411.4 mg/Kg 100 90 - 110 0 20

QC Association Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

Job ID: 890-5353-1

SDG: 03C1558268

GC VOA

Analysis Batch: 63922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Total/NA	Solid	8021B	63923
890-5353-2	FS02	Total/NA	Solid	8021B	63923
890-5353-3	FS03	Total/NA	Solid	8021B	63923
890-5353-4	FS04	Total/NA	Solid	8021B	63923
890-5353-5	SW01	Total/NA	Solid	8021B	63923
890-5353-6	SW02	Total/NA	Solid	8021B	63923
MB 880-63923/5-A	Method Blank	Total/NA	Solid	8021B	63923
LCS 880-63923/1-A	Lab Control Sample	Total/NA	Solid	8021B	63923
LCSD 880-63923/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63923
880-33935-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	63923
880-33935-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63923

Prep Batch: 63923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Total/NA	Solid	5035	_
890-5353-2	FS02	Total/NA	Solid	5035	
890-5353-3	FS03	Total/NA	Solid	5035	
890-5353-4	FS04	Total/NA	Solid	5035	
890-5353-5	SW01	Total/NA	Solid	5035	
890-5353-6	SW02	Total/NA	Solid	5035	
MB 880-63923/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63923/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63923/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33935-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
880-33935-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Total/NA	Solid	Total BTEX	
890-5353-2	FS02	Total/NA	Solid	Total BTEX	
890-5353-3	FS03	Total/NA	Solid	Total BTEX	
890-5353-4	FS04	Total/NA	Solid	Total BTEX	
890-5353-5	SW01	Total/NA	Solid	Total BTEX	
890-5353-6	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 63537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Total/NA	Solid	8015NM Prep	
890-5353-2	FS02	Total/NA	Solid	8015NM Prep	
890-5353-3	FS03	Total/NA	Solid	8015NM Prep	
890-5353-4	FS04	Total/NA	Solid	8015NM Prep	
890-5353-5	SW01	Total/NA	Solid	8015NM Prep	
890-5353-6	SW02	Total/NA	Solid	8015NM Prep	
MB 880-63537/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63537/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63537/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5341-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5341-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

GC Semi VOA

Analysis Batch: 63579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Total/NA	Solid	8015B NM	63537
890-5353-2	FS02	Total/NA	Solid	8015B NM	63537
890-5353-3	FS03	Total/NA	Solid	8015B NM	63537
890-5353-4	FS04	Total/NA	Solid	8015B NM	63537
890-5353-5	SW01	Total/NA	Solid	8015B NM	63537
890-5353-6	SW02	Total/NA	Solid	8015B NM	63537
MB 880-63537/1-A	Method Blank	Total/NA	Solid	8015B NM	63537
LCS 880-63537/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63537
LCSD 880-63537/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63537
890-5341-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	63537
890-5341-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	63537

Analysis Batch: 63766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Total/NA	Solid	8015 NM	
890-5353-2	FS02	Total/NA	Solid	8015 NM	
890-5353-3	FS03	Total/NA	Solid	8015 NM	
890-5353-4	FS04	Total/NA	Solid	8015 NM	
890-5353-5	SW01	Total/NA	Solid	8015 NM	
890-5353-6	SW02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 63490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Soluble	Solid	DI Leach	
890-5353-2	FS02	Soluble	Solid	DI Leach	
890-5353-3	FS03	Soluble	Solid	DI Leach	
890-5353-4	FS04	Soluble	Solid	DI Leach	
890-5353-5	SW01	Soluble	Solid	DI Leach	
890-5353-6	SW02	Soluble	Solid	DI Leach	
MB 880-63490/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63490/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63490/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5350-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5350-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 63636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5353-1	FS01	Soluble	Solid	300.0	63490
890-5353-2	FS02	Soluble	Solid	300.0	63490
890-5353-3	FS03	Soluble	Solid	300.0	63490
890-5353-4	FS04	Soluble	Solid	300.0	63490
890-5353-5	SW01	Soluble	Solid	300.0	63490
890-5353-6	SW02	Soluble	Solid	300.0	63490
MB 880-63490/1-A	Method Blank	Soluble	Solid	300.0	63490
LCS 880-63490/2-A	Lab Control Sample	Soluble	Solid	300.0	63490
LCSD 880-63490/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63490
890-5350-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	63490
890-5350-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63490

Client: Ensolum Job ID: 890-5353-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS01 Lab Sample ID: 890-5353-1

Date Collected: 09/26/23 12:50

Date Received: 09/26/23 16:20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63923	10/04/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63922	10/04/23 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64025	10/04/23 18:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			63766	09/29/23 17:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 17:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	63490	09/28/23 10:25	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63636	09/29/23 15:59	SMC	EET MID

Client Sample ID: FS02

Date Collected: 09/26/23 12:45

Lab Sample ID: 890-5353-2

Matrix: Solid

Date Collected: 09/26/23 12:45
Date Received: 09/26/23 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	63923	10/04/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63922	10/04/23 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64025	10/04/23 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			63766	09/29/23 17:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 17:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	63490	09/28/23 10:25	SMC	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	63636	09/29/23 16:19	SMC	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-5353-3

Date Collected: 09/26/23 12:55
Date Received: 09/26/23 16:20
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63923	10/04/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63922	10/04/23 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64025	10/04/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			63766	09/29/23 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 17:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63490	09/28/23 10:25	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63636	09/29/23 16:25	SMC	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-5353-4

Date Collected: 09/26/23 13:00 Matrix: Solid
Date Received: 09/26/23 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	63923	10/04/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63922	10/04/23 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64025	10/04/23 19:10	SM	EET MID

Eurofins Carlsbad

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10/5/2022

Client: Ensolum Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS04 Lab Sample ID: 890-5353-4

Date Collected: 09/26/23 13:00 Matrix: Solid Date Received: 09/26/23 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			63766	09/29/23 18:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 18:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	63490	09/28/23 10:25	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63636	09/29/23 16:32	SMC	EET MID

Client Sample ID: SW01 Lab Sample ID: 890-5353-5

Date Collected: 09/26/23 13:30 **Matrix: Solid**

Date Received: 09/26/23 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	63923	10/04/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63922	10/04/23 19:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64025	10/04/23 19:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			63766	09/29/23 18:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 18:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	63490	09/28/23 10:25	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63636	09/29/23 16:38	SMC	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-5353-6

Date Collected: 09/26/23 14:10 Date Received: 09/26/23 16:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63923	10/04/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63922	10/04/23 19:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64025	10/04/23 19:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			63766	09/29/23 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	63537	09/28/23 13:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63579	09/29/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	63490	09/28/23 10:25	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63636	09/29/23 16:45	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-24	
		ELAP	T104704400-23-26		
The following analytes	are included in this report, bu	it the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for	
the agency does not of	· '		ou by the governing addressity. This list his	ly molade analytes for	
the agency does not of Analysis Method	· '	Matrix	Analyte	y moidde driaiytes for	
0 ,	fer certification.	•	, , ,		

Method Summary

Client: Ensolum Job ID: 890-5353-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Client Sample ID

FS01

FS02

FS03

FS04

SW01

SW02

Lab Sample ID

890-5353-1

890-5353-2

890-5353-3

890-5353-4

890-5353-5

890-5353-6

Job ID: 890-5353-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Solid

Solid

Solid

Matrix	Collected	Received	Depth	
Solid	09/26/23 12:50	09/26/23 16:20	4	
Solid	09/26/23 12:45	09/26/23 16:20	4	
Solid	09/26/23 12:55	09/26/23 16:20	1	

09/26/23 16:20

09/26/23 16:20

09/26/23 16:20

0-4

0-4

09/26/23 13:00

09/26/23 13:30

09/26/23 14:10

13 14

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5353-1

SDG Number: 03C1558268

Login Number: 5353 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5353-1

SDG Number: 03C1558268

List Source: Eurofins Midland List Creation: 09/28/23 10:44 AM

Creator: Rodriguez, Leticia

Login Number: 5353

List Number: 2

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	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/12/2023 8:33:41 AM

JOB DESCRIPTION

Poker Lake Unit 301H SDG NUMBER 03C1558268

JOB NUMBER

890-5366-1

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 10/12/2023 8:33:41 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Ensolum
Project/Site: Poker Lake Unit 301H

Laboratory Job ID: 890-5366-1
SDG: 03C1558268

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Definitions/Glossary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Qualifiers

GC VOA

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

GC Semi VOA

GC Semi VC	JA
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*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
П	Indicates the analyte was analyzed for but not detected

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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 Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Job ID: 890-5366-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5366-1

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

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

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

Receipt

The samples were received on 9/28/2023 12:23 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 3.6° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-5366-1), FS05 (890-5366-2), FS06 (890-5366-3), FS07 (890-5366-4), FS08 (890-5366-5), SW03 (890-5366-6) and SW04 (890-5366-7).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-63776 and analytical batch 880-64078 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH01 (890-5366-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63776 and analytical batch 880-64078 was outside the control 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 880-64404 and analytical batch 880-64423 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-5366-1), FS05 (890-5366-2), FS06 (890-5366-3), FS08 (890-5366-5), SW03 (890-5366-6), SW04 (890-5366-7), (CCV 880-64423/5), (LCS 880-64404/2-A), (LCSD 880-64404/3-A), (880-34208-A-1-C), (880-34208-A-1-D MS) and (880-34208-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-64423/30). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-64404 and analytical batch 880-64423 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Case Narrative

Client: Ensolum Job ID: 890-5366-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Job ID: 890-5366-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Lab Sample ID: 890-5366-1

Client Sample Results

Client: Ensolum Job ID: 890-5366-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: PH01

Date Collected: 09/27/23 09:40 Date Received: 09/28/23 12:23

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:08	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 19:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130			10/02/23 15:48	10/06/23 19:08	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/02/23 15:48	10/06/23 19:08	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/23 19:08	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/23 13:16	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/10/23 15:31	10/11/23 13:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9	mg/Kg		10/10/23 15:31	10/11/23 13:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/10/23 15:31	10/11/23 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			10/10/23 15:31	10/11/23 13:16	1
						10/10/23 15:31	10/11/23 13:16	

Client Sample ID: FS05 Lab Sample ID: 890-5366-2 Date Collected: 09/27/23 10:30

RL

5.02

Unit

mg/Kg

D

Prepared

Analyzed

10/04/23 09:47

Dil Fac

Matrix: Solid

Date Received: 09/28/23 12:23

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

139

Sample Depth: 2

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 19:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 19:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/02/23 15:48	10/06/23 19:34	1

Client: Ensolum Job ID: 890-5366-1

Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS05 Lab Sample ID: 890-5366-2

Date Collected: 09/27/23 10:30 Matrix: Solid Date Received: 09/28/23 12:23

Sample Depth: 2

Method: SW846 8021B - V	/olatile Organic Compounds (GC)	(Continued)			
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac

Carrogato	/ortederery	Quamici	2	, repared	rinaryzou	<i>D.</i> 1.1.40
1,4-Difluorobenzene (Surr)	104		70 - 130	10/02/23 15:48	10/06/23 19:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/23 19:34	1

1					
I N	lethod: SW846 80	45 NM Dicco	I Danas Or	manica (DDC	N (CC)
I IV	IELI IOU. 377040 OU	15 NW - Diese	i Kallue Ol	uallics (DRC	וועטטווו

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			10/11/23 13:38	1

Method: SW846 8015B NM - Diesel Ran	de Organics (DRO) (GC)
motifical circle of log limit blocci itali	go organico (bito) (oo)

			()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U	50.3	mg/Kg		10/10/23 15:31	10/11/23 13:38	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.3	U *+ *1	50.3	mg/Kg		10/10/23 15:31	10/11/23 13:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		10/10/23 15:31	10/11/23 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130	10/10/23 15:31	10/11/23 13:38	1
o-Terphenyl	135	S1+	70 - 130	10/10/23 15:31	10/11/23 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.03	mg/Kg			10/04/23 09:53	1

Client Sample ID: FS06 Lab Sample ID: 890-5366-3 **Matrix: Solid**

Date Collected: 09/27/23 10:35 Date Received: 09/28/23 12:23

Sample Depth: 2

Method: SW846 8021	Malatila Ossasia	O = = (OO)
NIGTHOR: SVVX46 XII / 11	vojatije i irnanic i	L.Amnolinas II-L.I

	Desuit	Qualifier	, RL	Unit	_	Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	KL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/02/23 15:48	10/06/23 20:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/02/23 15:48	10/06/23 20:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/02/23 15:48	10/06/23 20:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/02/23 15:48	10/06/23 20:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/02/23 15:48	10/06/23 20:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/02/23 15:48	10/06/23 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			10/02/23 15:48	10/06/23 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/02/23 15:48	10/06/23 20:00	1
1,4-Difluorobenzene (Surr)	123		70 - 130	10/02/23 15:48	10/06/23 20:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/06/23 20:00	1

Method: SW846 8	015 NM - Die	sel Range Or	ganics (D	RO) (GC	1:
INICIIIOU. OTTOTO	OIOINI - DIE	sei italiye Oli	gariicə (D		,,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			10/11/23 14:00	1

69.3

Matrix: Solid

Lab Sample ID: 890-5366-3

10/04/23 09:59

Client Sample Results

Client: Ensolum Job ID: 890-5366-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS06

Date Collected: 09/27/23 10:35 Date Received: 09/28/23 12:23

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		10/10/23 15:31	10/11/23 14:00	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.2	U *+ *1	50.2	mg/Kg		10/10/23 15:31	10/11/23 14:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		10/10/23 15:31	10/11/23 14:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			10/10/23 15:31	10/11/23 14:00	1
o-Terphenyl	124		70 - 130			10/10/23 15:31	10/11/23 14:00	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	6					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS07 Lab Sample ID: 890-5366-4 Date Collected: 09/27/23 14:40 **Matrix: Solid**

5.05

mg/Kg

Date Received: 09/28/23 12:23

Sample Depth: 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/02/23 15:48	10/06/23 20:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/02/23 15:48	10/06/23 20:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/02/23 15:48	10/06/23 20:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/02/23 15:48	10/06/23 20:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/02/23 15:48	10/06/23 20:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/02/23 15:48	10/06/23 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/02/23 15:48	10/06/23 20:26	1
1,4-Difluorobenzene (Surr)	121		70 - 130			10/02/23 15:48	10/06/23 20:26	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/06/23 20:26	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			10/11/23 14:22	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		10/10/23 15:31	10/11/23 14:22	1
Diesel Range Organics (Over C10-C28)	<50.5	U *+ *1	50.5	mg/Kg		10/10/23 15:31	10/11/23 14:22	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		10/10/23 15:31	10/11/23 14:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			10/10/23 15:31	10/11/23 14:22	1
o-Terphenyl	107		70 - 130			10/10/23 15:31	10/11/23 14:22	1

Client Sample Results

Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: FS07 Lab Sample ID: 890-5366-4

Date Collected: 09/27/23 14:40

Date Received: 09/28/23 12:23

Matrix: Solid

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	1320	50.0	mg/Kg			10/04/23 10:05	10		

Client Sample ID: FS08 Lab Sample ID: 890-5366-5

Date Collected: 09/27/23 10:45 Date Received: 09/28/23 12:23

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 20:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 20:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 20:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 20:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 20:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/02/23 15:48	10/06/23 20:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130			10/02/23 15:48	10/06/23 20:53	1

Method: TAL SOP Total BTEX - Tot	al BIEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	mg/Kg			10/06/23 20:53	1
_							

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			10/11/23 14:44	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		10/10/23 15:31	10/11/23 14:44	1
Diesel Range Organics (Over C10-C28)	<50.5	U *+ *1	50.5	mg/Kg		10/10/23 15:31	10/11/23 14:44	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		10/10/23 15:31	10/11/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			10/10/23 15:31	10/11/23 14:44	1
o-Terphenyl	124		70 - 130			10/10/23 15:31	10/11/23 14:44	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.00	mg/Kg			10/04/23 10:11	1

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Lab Sample ID: 890-5366-6

Client Sample Results

Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SW03

Date Collected: 09/27/23 10:40 Date Received: 09/28/23 12:23

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 21:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 21:19	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 21:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 21:19	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/02/23 15:48	10/06/23 21:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/02/23 15:48	10/06/23 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			10/02/23 15:48	10/06/23 21:19	1
1,4-Difluorobenzene (Surr)	115		70 - 130			10/02/23 15:48	10/06/23 21:19	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/23 21:19	1
Method: SW846 8015 NM - Diese	ol Bango Organ	ice (DBO) (GC)					
Method. 344040 0013 MM - Diese	i Kange Organ	ica (DICO) (i	GC)					
Analyte	Result	Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			50.1	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/11/23 15:06	Dil Fac
Total TPH	<50.1	U	50.1		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	<50.1	Unics (DRO)	50.1 (GC)	mg/Kg			10/11/23 15:06	1
Total TPH Method: SW846 8015B NM - Dies Analyte	<50.1 sel Range Orga Result	nics (DRO) Qualifier	50.1 (GC)	mg/Kg	<u>D</u>	Prepared	10/11/23 15:06 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.1	nics (DRO) Qualifier	50.1 (GC)	mg/Kg			10/11/23 15:06	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<50.1 sel Range Orga Result <50.1	nics (DRO) Qualifier	50.1 (GC)	mg/Kg		Prepared	10/11/23 15:06 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.1 sel Range Orga Result <50.1	nics (DRO) Qualifier	50.1 (GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 10/10/23 15:31	10/11/23 15:06 Analyzed 10/11/23 15:06	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.1 sel Range Orga Result <50.1	Dinics (DRO) Qualifier U U *+ *1	50.1 (GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 10/10/23 15:31	10/11/23 15:06 Analyzed 10/11/23 15:06	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.1 sel Range Orga Result <50.1 <50.1	Oualifier U *+ *1	50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/10/23 15:31 10/10/23 15:31	10/11/23 15:06 Analyzed 10/11/23 15:06 10/11/23 15:06	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.1 sel Range Orga Result <50.1 <50.1 <50.1	Oualifier U *+ *1	50.1 (GC) RL 50.1 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/10/23 15:31 10/10/23 15:31 10/10/23 15:31	Analyzed 10/11/23 15:06 Analyzed 10/11/23 15:06 10/11/23 15:06	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 %Recovery	Oualifier U *+ *1 U Qualifier U Qualifier S1+	50.1 (GC) RL 50.1 50.1 50.1 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/10/23 15:31 10/10/23 15:31 10/10/23 15:31 Prepared	Analyzed 10/11/23 15:06 Analyzed 10/11/23 15:06 10/11/23 15:06 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 <50.1 %Recovery 159 139	Oualifier U *+ *1 U Qualifier S1+ S1+	50.1 (GC) RL 50.1 50.1 50.1 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/10/23 15:31 10/10/23 15:31 10/10/23 15:31 Prepared 10/10/23 15:31	Analyzed 10/11/23 15:06 Analyzed 10/11/23 15:06 10/11/23 15:06 Analyzed 10/11/23 15:06	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.1 sel Range Orga Result <50.1 <50.1 <50.1 <50.1 <50.1 159 139 Chromatograp	Oualifier U *+ *1 U Qualifier S1+ S1+	50.1 (GC) RL 50.1 50.1 50.1 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/10/23 15:31 10/10/23 15:31 10/10/23 15:31 Prepared 10/10/23 15:31	Analyzed 10/11/23 15:06 Analyzed 10/11/23 15:06 10/11/23 15:06 Analyzed 10/11/23 15:06	

Client Sample ID: SW04

Date Collected: 09/27/23 14:25 Date Received: 09/28/23 12:23

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/02/23 15:48	10/06/23 21:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/02/23 15:48	10/06/23 21:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/02/23 15:48	10/06/23 21:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/02/23 15:48	10/06/23 21:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/02/23 15:48	10/06/23 21:46	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/02/23 15:48	10/06/23 21:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/02/23 15:48	10/06/23 21:46	1

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Lab Sample ID: 890-5366-7

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: SW04 Lab Sample ID: 890-5366-7

Date Collected: 09/27/23 14:25 Date Received: 09/28/23 12:23

Sample Depth: 0-4

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130			10/02/23 15:48	10/06/23 21:46	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/06/23 21:46	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/23 15:28	1
Method: SW846 8015B NM - Dies	sal Panga Orga	nics (DRO)	(CC)					
MELITOU. 344040 OUTSD MM - DIE:			(66)					
		Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte				Unit mg/Kg	<u>D</u>	Prepared 10/10/23 15:32	Analyzed 10/11/23 15:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	Result <49.9	Qualifier	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	10/10/23 15:32	10/11/23 15:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U *+ *1	RL 49.9	mg/Kg	<u> </u>	10/10/23 15:32	10/11/23 15:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U U *+ *1	RL 49.9 49.9	mg/Kg	<u>D</u>	10/10/23 15:32 10/10/23 15:32	10/11/23 15:28 10/11/23 15:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U *+ *1	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	10/10/23 15:32 10/10/23 15:32 10/10/23 15:32	10/11/23 15:28 10/11/23 15:28 10/11/23 15:28	1

5.01

Unit

mg/Kg

D

Prepared

Analyzed

10/04/23 10:22

Dil Fac

Result Qualifier

60.4

Surrogate Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5365-A-1-G MS	Matrix Spike	88	107	
890-5365-A-1-H MSD	Matrix Spike Duplicate	91	103	
890-5366-1	PH01	65 S1-	80	
390-5366-2	FS05	89	104	
890-5366-3	FS06	113	123	
390-5366-4	FS07	102	121	
390-5366-5	FS08	95	110	
390-5366-6	SW03	111	115	
890-5366-7	SW04	94	99	
LCS 880-63776/1-A	Lab Control Sample	90	104	
LCSD 880-63776/2-A	Lab Control Sample Dup	89	103	
	Method Blank	55 S1-	96	

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

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34208-A-1-D MS	Matrix Spike	170 S1+	138 S1+	
880-34208-A-1-E MSD	Matrix Spike Duplicate	171 S1+	138 S1+	
890-5366-1	PH01	134 S1+	118	
890-5366-2	FS05	153 S1+	135 S1+	
890-5366-3	FS06	141 S1+	124	
890-5366-4	FS07	122	107	
890-5366-5	FS08	142 S1+	124	
890-5366-6	SW03	159 S1+	139 S1+	
890-5366-7	SW04	151 S1+	135 S1+	
LCS 880-64404/2-A	Lab Control Sample	137 S1+	148 S1+	
LCSD 880-64404/3-A	Lab Control Sample Dup	151 S1+	144 S1+	
	Method Blank	200 S1+	196 S1+	

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OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5366-1 SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63776/5-A

Analysis Batch: 64078

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63776

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/02/23 15:48	10/06/23 11:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/02/23 15:48	10/06/23 11:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/02/23 15:48	10/06/23 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/02/23 15:48	10/06/23 11:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/02/23 15:48	10/06/23 11:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/02/23 15:48	10/06/23 11:38	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130	10/02/23 15:4	8 10/06/23 11:38	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/02/23 15:4	8 10/06/23 11:38	1

Lab Sample ID: LCS 880-63776/1-A

Matrix: Solid

Analysis Batch: 64078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63776

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07044		mg/Kg		70	70 - 130	
Toluene	0.100	0.08066		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07569		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	0.200	0.1494		mg/Kg		75	70 - 130	
o-Xylene	0.100	0.07498		mg/Kg		75	70 - 130	

LCS LCS

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-63776/2-A

Matrix: Solid

Analysis Batch: 64078

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63776

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07310		mg/Kg		73	70 - 130	4	35	
Toluene	0.100	0.07874		mg/Kg		79	70 - 130	2	35	
Ethylbenzene	0.100	0.07952		mg/Kg		80	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.1580		mg/Kg		79	70 - 130	6	35	
o-Xylene	0.100	0.07679		mg/Kg		77	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-5365-A-1-G MS

Matrix: Solid

Analysis Batch: 64078

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

Prep Batch: 63776

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.0998	0.06917	F1	mg/Kg		69	70 - 130	
Toluene	< 0.00199	U F1	0.0998	0.06608	F1	mg/Kg		66	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-5366-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: 890-5365-A-1-G MS **Matrix: Solid**

Analysis Batch: 64078

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63776

San	iple Sample	Spike	MS	MS				%Rec	
Analyte Re	sult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene <0.00	199 U F1	0.0998	0.05899	F1	mg/Kg		58	70 - 130	
m-Xylene & p-Xylene <0.00	398 UF1	0.200	0.1130	F1	mg/Kg		57	70 - 130	
o-Xylene <0.00	199 UF1	0.0998	0.05946	F1	mg/Kg		60	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63776

Lab Sample ID: 890-5365-A-1-H MSD **Matrix: Solid**

Analysis Batch: 64078

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00199	U F1	0.0990	0.05614	F1	mg/Kg		57	70 - 130	21	35
<0.00199	U F1	0.0990	0.05472	F1	mg/Kg		55	70 - 130	19	35
<0.00199	U F1	0.0990	0.04984	F1	mg/Kg		49	70 - 130	17	35
<0.00398	U F1	0.198	0.09469	F1	mg/Kg		48	70 - 130	18	35
<0.00199	U F1	0.0990	0.04966	F1	mg/Kg		50	70 - 130	18	35
	Result <0.00199 <0.00199 <0.00199 <0.00398	Sample Sample Result Qualifier <0.00199	Result Qualifier Added <0.00199	Result Qualifier Added Result <0.00199	Result Qualifier Added Result Qualifier <0.00199	Result Qualifier Added Result Qualifier Unit <0.00199	Result Qualifier Added Result Qualifier Unit D <0.00199	Result Qualifier Added Result Qualifier Unit D %Rec <0.00199	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00199	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00199

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-64404/1-A

Matrix: Solid

Analysis Batch: 64423

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

Prep Batch: 64404

	IVID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/10/23 15:30	10/11/23 09:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/10/23 15:30	10/11/23 09:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/10/23 15:30	10/11/23 09:15	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	200	S1+	70 - 130	10/10/23 15:	10/11/23 09:15	1
o-Terphenyl	196	S1+	70 - 130	10/10/23 15:3	0 10/11/23 09:15	1

Lab Sample ID: LCS 880-64404/2-A

Matrix: Solid

Analysis Batch: 64423

Client Sample	ID:	Lab	Control	Sample	
		Droi	Type: 1	Total/NA	

Prep Type: Total/NA Prep Batch: 64404

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	922.1		mg/Kg		92	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1019		mg/Kg		102	70 - 130
C10-C28)							

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Client: Ensolum Job ID: 890-5366-1 Project/Site: Poker Lake Unit 301H SDG: 03C1558268

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

Lab Sample ID: LCS 880-64404/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 64423 Prep Batch: 64404

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 137 S1+ 70 - 130 o-Terphenyl 148 S1+ 70 - 130

Lab Sample ID: LCSD 880-64404/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 64423 Prep Batch: 64404

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 997.7 100 70 - 1308 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1371 *+ *1 mg/Kg 137 70 - 13029 20

LCSD LCSD Surrogate %Recovery Qualifier Limits

151 S1+ 70 - 130 1-Chlorooctane 144 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 880-34208-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 64423 Prep Batch: 64404 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.6 U 999 953.8 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U *+ *1 999 1308 mg/Kg 129 70 - 130 C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 170 S1+ 70 - 130 o-Terphenyl 138 S1+

Lab Sample ID: 880-34208-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 64423 Prep Batch: 64404 Sample Sample Snika MeD MeD

	Sample	Sample	Spike	MISD	MOD				70 KeC		KFD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.6	U	999	942.2		mg/Kg		92	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.6	U *+ *1	999	1307		mg/Kg		129	70 - 130	0	20	
C10-C28)												

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 171 S1+ 70 - 130 138 S1+ 70 - 130 o-Terphenyl

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C10-C28)

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63653/1-A

Matrix: Solid

Analysis Batch: 63879

MB MB

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 10/03/23 17:25
 1

Lab Sample ID: LCS 880-63653/2-A

Matrix: Solid

Analysis Batch: 63879

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.4 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-63653/3-A

Matrix: Solid

Analysis Batch: 63879

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 238.2 mg/Kg 90 - 110

Lab Sample ID: 890-5365-A-11-B MS

Matrix: Solid

Analysis Batch: 63879

MS MS Sample Sample Spike %Rec Analyte Qualifier Added Result Result Qualifier Unit %Rec Limits Chloride 842 248 1106 107 90 - 110 mg/Kg

Lab Sample ID: 890-5365-A-11-C MSD

Matrix: Solid

Analysis Batch: 63879

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 842 248 1104 mg/Kg 106 90 - 110 0 20

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QC Association Summary

Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

GC VOA

Prep Batch: 63776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-5366-1	PH01	Total/NA	Solid	5035	
890-5366-2	FS05	Total/NA	Solid	5035	
890-5366-3	FS06	Total/NA	Solid	5035	
890-5366-4	FS07	Total/NA	Solid	5035	
890-5366-5	FS08	Total/NA	Solid	5035	
890-5366-6	SW03	Total/NA	Solid	5035	
890-5366-7	SW04	Total/NA	Solid	5035	
MB 880-63776/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63776/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63776/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5365-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-5365-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 64078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-1	PH01	Total/NA	Solid	8021B	63776
890-5366-2	FS05	Total/NA	Solid	8021B	63776
890-5366-3	FS06	Total/NA	Solid	8021B	63776
890-5366-4	FS07	Total/NA	Solid	8021B	63776
890-5366-5	FS08	Total/NA	Solid	8021B	63776
890-5366-6	SW03	Total/NA	Solid	8021B	63776
890-5366-7	SW04	Total/NA	Solid	8021B	63776
MB 880-63776/5-A	Method Blank	Total/NA	Solid	8021B	63776
LCS 880-63776/1-A	Lab Control Sample	Total/NA	Solid	8021B	63776
LCSD 880-63776/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63776
890-5365-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	63776
890-5365-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63776

Analysis Batch: 64291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-1	PH01	Total/NA	Solid	Total BTEX	
890-5366-2	FS05	Total/NA	Solid	Total BTEX	
890-5366-3	FS06	Total/NA	Solid	Total BTEX	
890-5366-4	FS07	Total/NA	Solid	Total BTEX	
890-5366-5	FS08	Total/NA	Solid	Total BTEX	
890-5366-6	SW03	Total/NA	Solid	Total BTEX	
890-5366-7	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-1	PH01	Total/NA	Solid	8015NM Prep	
890-5366-2	FS05	Total/NA	Solid	8015NM Prep	
890-5366-3	FS06	Total/NA	Solid	8015NM Prep	
890-5366-4	FS07	Total/NA	Solid	8015NM Prep	
890-5366-5	FS08	Total/NA	Solid	8015NM Prep	
890-5366-6	SW03	Total/NA	Solid	8015NM Prep	
890-5366-7	SW04	Total/NA	Solid	8015NM Prep	
MB 880-64404/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64404/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

GC Semi VOA (Continued)

Prep Batch: 64404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-64404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34208-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34208-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-1	PH01	Total/NA	Solid	8015B NM	64404
890-5366-2	FS05	Total/NA	Solid	8015B NM	64404
890-5366-3	FS06	Total/NA	Solid	8015B NM	64404
890-5366-4	FS07	Total/NA	Solid	8015B NM	64404
890-5366-5	FS08	Total/NA	Solid	8015B NM	64404
890-5366-6	SW03	Total/NA	Solid	8015B NM	64404
890-5366-7	SW04	Total/NA	Solid	8015B NM	64404
MB 880-64404/1-A	Method Blank	Total/NA	Solid	8015B NM	64404
LCS 880-64404/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64404
LCSD 880-64404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64404
880-34208-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	64404
880-34208-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64404

Analysis Batch: 64526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-1	PH01	Total/NA	Solid	8015 NM	
890-5366-2	FS05	Total/NA	Solid	8015 NM	
890-5366-3	FS06	Total/NA	Solid	8015 NM	
890-5366-4	FS07	Total/NA	Solid	8015 NM	
890-5366-5	FS08	Total/NA	Solid	8015 NM	
890-5366-6	SW03	Total/NA	Solid	8015 NM	
890-5366-7	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 63653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-1	PH01	Soluble	Solid	DI Leach	
890-5366-2	FS05	Soluble	Solid	DI Leach	
890-5366-3	FS06	Soluble	Solid	DI Leach	
890-5366-4	FS07	Soluble	Solid	DI Leach	
890-5366-5	FS08	Soluble	Solid	DI Leach	
890-5366-6	SW03	Soluble	Solid	DI Leach	
890-5366-7	SW04	Soluble	Solid	DI Leach	
MB 880-63653/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63653/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63653/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5365-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5365-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 63879

Lab Sa	mple ID	Client Sample ID	Prep Type	Matrix	Method F	rep Batch
890-53	66-1	PH01	Soluble	Solid	300.0	63653
890-53	66-2	FS05	Soluble	Solid	300.0	63653
890-53	66-3	FS06	Soluble	Solid	300.0	63653

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QC Association Summary

Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

HPLC/IC (Continued)

Analysis Batch: 63879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5366-4	FS07	Soluble	Solid	300.0	63653
890-5366-5	FS08	Soluble	Solid	300.0	63653
890-5366-6	SW03	Soluble	Solid	300.0	63653
890-5366-7	SW04	Soluble	Solid	300.0	63653
MB 880-63653/1-A	Method Blank	Soluble	Solid	300.0	63653
LCS 880-63653/2-A	Lab Control Sample	Soluble	Solid	300.0	63653
LCSD 880-63653/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63653
890-5365-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	63653
890-5365-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63653

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Client: Ensolum Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Client Sample ID: PH01 Lab Sample ID: 890-5366-1

Date Collected: 09/27/23 09:40

Date Received: 09/28/23 12:23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63776	10/02/23 15:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64078	10/06/23 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64291	10/06/23 19:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			64526	10/11/23 13:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64404	10/10/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64423	10/11/23 13:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63653	09/29/23 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63879	10/04/23 09:47	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-5366-2

Date Collected: 09/27/23 10:30 Matrix: Solid
Date Received: 09/28/23 12:23

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Lab Analyst Prep 5035 Total/NA 5 mL 63776 10/02/23 15:48 MNR EET MID 5.03 g Total/NA 8021B Analysis 1 5 mL 5 mL 64078 10/06/23 19:34 MNR **EET MID** Total/NA Total BTEX Analysis 64291 10/06/23 19:34 SM **EET MID** 1 Total/NA Analysis 8015 NM 64526 10/11/23 13:38 SM **EET MID** 8015NM Prep Total/NA 9.94 g 64404 10/10/23 15:31 TKC **EET MID** Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 64423 10/11/23 13:38 SM **EET MID** Soluble DI Leach 4.97 g 50 mL 63653 09/29/23 13:31 SMC **EET MID** Leach

Client Sample ID: FS06 Lab Sample ID: 890-5366-3

50 mL

50 mL

63879

10/04/23 09:53

СН

EET MID

Matrix: Solid

Date Collected: 09/27/23 10:35 Date Received: 09/28/23 12:23

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	63776	10/02/23 15:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64078	10/06/23 20:00	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			64291	10/06/23 20:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			64526	10/11/23 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	64404	10/10/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64423	10/11/23 14:00	SM	EET MIC
Soluble	Leach	DI Leach			4.95 g	50 mL	63653	09/29/23 13:31	SMC	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	63879	10/04/23 09:59	CH	EET MID

Client Sample ID: FS07

Lab Sample ID: 890-5366-4

Date Collected: 09/27/23 14:40

Matrix: Solid

Date Received: 09/28/23 12:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	63776	10/02/23 15:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64078	10/06/23 20:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64291	10/06/23 20:26	SM	EET MID

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iiilo Gariobat

Client: Ensolum Job ID: 890-5366-1 SDG: 03C1558268 Project/Site: Poker Lake Unit 301H

Client Sample ID: FS07 Lab Sample ID: 890-5366-4

Date Collected: 09/27/23 14:40 **Matrix: Solid** Date Received: 09/28/23 12:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			64526	10/11/23 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64404	10/10/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64423	10/11/23 14:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63653	09/29/23 13:31	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	63879	10/04/23 10:05	CH	EET MID

Client Sample ID: FS08 Lab Sample ID: 890-5366-5

Date Collected: 09/27/23 10:45 **Matrix: Solid**

Date Received: 09/28/23 12:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63776	10/02/23 15:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64078	10/06/23 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64291	10/06/23 20:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			64526	10/11/23 14:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64404	10/10/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64423	10/11/23 14:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63653	09/29/23 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63879	10/04/23 10:11	CH	EET MID

Client Sample ID: SW03 Lab Sample ID: 890-5366-6

Date Collected: 09/27/23 10:40 Date Received: 09/28/23 12:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	63776	10/02/23 15:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64078	10/06/23 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64291	10/06/23 21:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			64526	10/11/23 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64404	10/10/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64423	10/11/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63653	09/29/23 13:31	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63879	10/04/23 10:16	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-5366-7

Date Collected: 09/27/23 14:25 Date Received: 09/28/23 12:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	63776	10/02/23 15:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64078	10/06/23 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64291	10/06/23 21:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			64526	10/11/23 15:28	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	64404 64423	10/10/23 15:32 10/11/23 15:28	TKC SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum

Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

Client Sample ID: SW04 Lab Sample ID: 890-5366-7

Date Collected: 09/27/23 14:25

Date Received: 09/28/23 12:23

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab 4.99 g Soluble DI Leach 63653 SMC EET MID Leach 50 mL 09/29/23 13:31 300.0 EET MID Soluble Analysis 50 mL 50 mL 63879 10/04/23 10:22 СН

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 Job ID: 890-5366-1
Project/Site: Poker Lake Unit 301H SDG: 03C1558268

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	P	T104704400-23-26	06-30-24
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Ensolum Job ID: 890-5366-1 Project/Site: Poker Lake Unit 301H

SDG: 03C1558268

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Poker Lake Unit 301H

Job ID: 890-5366-1

SDG: 03C1558268

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5366-1	PH01	Solid	09/27/23 09:40	09/28/23 12:23	2
890-5366-2	FS05	Solid	09/27/23 10:30	09/28/23 12:23	2
890-5366-3	FS06	Solid	09/27/23 10:35	09/28/23 12:23	2
890-5366-4	FS07	Solid	09/27/23 14:40	09/28/23 12:23	4
890-5366-5	FS08	Solid	09/27/23 10:45	09/28/23 12:23	4
890-5366-6	SW03	Solid	09/27/23 10:40	09/28/23 12:23	0-2
890-5366-7	SW04	Solid	09/27/23 14:25	09/28/23 12:23	0-4

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Chain of Custody TX (281) 240-200, Dalles, TX (214) 909-3334 X(515) 515-515-512-514-10-04 X(10) 240-4200, San Antonio, TX (10) 509-3334 X(515) 515-515-514-10-04 X(10) ENCYCLT (5YEET) X(10) ENCYCLT (5YEET) Sate of Project CANSDBAC, NIM 8/92-20 GEORGE EXXONMODIL. COM State of Project CANSDBAC, NIM 8/92-20 Reporting: Lee- B90-5366 Chain of Custody B90-5366 Chain of Custody ANALYSIS REQUEST AN	Chain of Custody Houston, TX (28) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EF P350, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EF P350, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199 ANA Graby Pres. CAMTSDACL NIM 99 COT Code Code
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5366-1

SDG Number: 03C1558268

Login Number: 5366 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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	

Released to Imaging: 3/1/2024 11:40:41 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5366-1

SDG Number: 03C1558268

List Source: Eurofins Midland List Creation: 09/29/23 11:04 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 5366

<6mm (1/4").

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	N/A	

Eurofins Carlsbad

Released to Imaging: 3/1/2024 11:40:41 AM

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APPENDIX E

NMOCD Notifications

From: <u>Tacoma Morrissey</u>
To: <u>Aimee Cole</u>

Subject: FW: XTO - Sampling Notification (Week of 9/18/23 - 9/22/23)

Date: Wednesday, October 25, 2023 8:37:52 AM

Attachments: image001.png

image002.png image003.png image004.png



Tacoma Morrissey

Senior Geologist 337-257-8307 **Ensolum, LLC**

From: Ben Belill <bbelill@ensolum.com>

Sent: Wednesday, September 13, 2023 5:19 PM

To: Garrett Green (garrett.green@exxonmobil.com) <garrett.green@exxonmobil.com>; Melanie Collins (melanie.collins@exxonmobil.com) <melanie.collins@exxonmobil.com>; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>; amy.ruth@exxonmobil.com

Cc: DelawareSpills@exxonmobil.com; Tacoma Morrissey <tmorrissey@ensolum.com>; Ashley Ager <aager@ensolum.com>; Ashley Giovengo <agiovengo@ensolum.com>; Wes Weichert wweichert.gov/ensolum.com

Subject: XTO - Sampling Notification (Week of 9/18/23 - 9/22/23)

Hi Garrett,

Please see the email below for NMOCD sampling notification. None of these are located on State Land.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of September 18, 2023.

Monday

PLU 29 Big Sinks West CTB / NAPP2320634792

Tuesday

• Indian Flats Bass 6 / NMAP1823048577

Wednesday

• Indian Flats Bass 6 / NMAP1823048577

Thursday

• JRU 29 DI 9 Riser / NAPP2322141858

Friday

- JRU 29 DI 9 Riser / NAPP2322141858
- Poker Lake Unit 301H / NAPP2322646789

Thank you,



Benjamin Belill Project Geologist 989-854-0852 Ensolum, LLC

From: Rodgers, Scott, EMNRD

To: Green, Garrett J; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD

Cc: Ben Belill; DelawareSpills /SM; Collins, Melanie

Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 9/25/23 - 9/29/23)

Date: Wednesday, September 20, 2023 5:41:28 PM

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



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

Sent: Wednesday, September 20, 2023 3:18 PM

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

Cc: Ben Belill

| Sm < DelawareSpills @exxonmobil.com >; DelawareSpills /SM < DelawareSpills @exxonmobil.com >;

Collins, Melanie <melanie.collins@exxonmobil.com>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 9/25/23 - 9/29/23)

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 September 25, 2023.

Monday

- JRU 21 DI 9 Riser / NAPP2322141858
- Poker Lake Unit 301H / NAPP2322646789

Tuesday

- North Indian Flats 26 Fed 1 / nAPP2323653065
- Poker Lake Unit 301H / NAPP2322646789

Wednesday

- North Indian Flats 26 Fed 1 / nAPP2323653065
- BEU 70 / NAPP2318139530

Thursday

- PLU 15 Twin Wells Ranch CTB / Napp2323449490
- Perla Verde 31 State Battery / nAPP2322751480 (SLO)

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 279718

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	279718
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2322646789 POKER LAKE UNIT 301H, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	3/1/2024
rhamlet	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing if the back fill is coming from a rancher's pit or other local source AND/OR proof from the landfill/landfarm that their backfill is non-waste containing; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/1/2024