ENSOLUM

April 14, 2023

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

Re: Closure Request
East Vacuum Grayburg – San Andreas Unit #010
Incident Number NAPP2221675703
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the East Vacuum Grayburg – San Andreas Unit #010 (Site) as outlined in an *Revised Remediation Work Plan (RRWP)*, dated December 14, 2022. The previous remediation activities and supporting documents can be referenced in the *RRWP.* Based on the results presented in this report, Maverick is submitting this *Closure Request*, describing remediation that has occurred following the approval of the *RRWP* and requesting closure for Incident Number NAPP2221675703.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 28, Township 17 South, Range 35 East, in Lea County, New Mexico (32.80302°, -103.45896°) and is associated with oil and gas exploration and production operations on New Mexico State Land (Figure 1).

On June 6, 2022, a hole in a surface flowline resulted in the release of approximately 35 barrels (bbls) of produced water and 2 bbls of crude oil into the pasture. Vacuum trucks were immediately dispatched and recovered approximately 19 bbls of produced water and 1 bbl of crude oil. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) which was received on August 4, 2022. The release was subsequently assigned Incident Number NAPP2221675703.

Between October 24 and 25, 2022, delineation activities were conducted at the Site to assess the lateral and vertical extent of impacted soil. Delineation soil samples were collected at depths ranging from 1-foot to 8 feet bgs in locations based on highest field screening results and the terminus of each pothole, depicted on Figure 2. Field screening and laboratory analytical results indicated chloride concentrations existed in the top 2 feet below ground surface (bgs) of the release area at concentrations that exceeded the Table I Closure Criteria (Closure Criteria). As a result, Maverick submitted the *RRWP* and proposed excavation and disposal of impacted soil from the top 4 feet of the subsurface with confirmation sampling every 400 square feet of the excavation.

The *RRWP* was approved by NMOCD on January 1, 2023 via email with the following conditions:

> *Remediation Plan Approved with Conditions. Variance approved to collect sidewall confirmation soil samples at four hundred (400) square feet.*

What follows is a description of the work completed in compliance with these conditions and the approved *RRWP*.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the *RRWP*, the following NMOCD Closure Criteria was applied (Figure 1):

- 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; and
- Chloride: 10,000 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 impacted by the release, per Title 19, Chapter 15, Part 29, Section 13D(1) (19.15.29.13D(1)) of the New Mexico Administrative Code (NMAC) for the top 4 feet of areas that will be immediately reclaimed following remediation.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Throughout March 2023, Ensolum personnel were onsite to oversee excavation activities as detailed in the approved *RRWP.* Excavation activities were performed via track-hoe and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) with a calibrated photoionization dectector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Photographic documentation is included in Appendix A.

Following removal of impacted soil, 5-point composite excavation confirmation soil samples were collected every 400 square feet from the floor and sidewalls of the excavation as permitted by the approved *RRWP*. The excavation confirmation samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation confirmation soil samples FS01 through FS29 were collected from the floor of the excavation at a depth of approximately 4 feet below ground surface (bgs). Excavation confirmation soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation sidewall sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3.

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 constituents 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

Laboratory analytical results for all excavation confirmation soil samples indicated all COC concentrations were compliant with Closure Criteria, except for excavation confirmation floor soil sample FS08. Laboratory analytical results for soil sample FS08 indicated one of the COC concentrations exceeded the applicable Closure Criteria. Laboratory analytical results are provided on Table 1 and laboratory analytical reports are included as Appendix B.

ADDITIONAL EXCAVATION AND SOIL SAMPLING ACTIVITIES

On April 6, 2023, Ensolum personel returned to the Site to oversee additional excavation activities as warranted by laboratory analytical results for soil sample FS08. Excavation activities were resumed via track-hoe and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride as previously described. Photographic documentation is included in Appendix A.

Following further removal of impacted soil, a 5-point composite excavation confirmation soil sample was collected from the freshly excavated floor of the excavation, representing an approximate 400 square foot area. Excavation confirmation soil sample FS08A was collected from the floor of the excavation at an approximate depth of 4.25 feet bgs. The excavation confirmation sample was collected, handled and analyzed as previously described. The final excavation extent and final excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

The excavation measured approximately 11,600 square feet in areal extent. A total of approximately 1,700 cubic yards of impacted soil were removed during the excavation activities. The soil was transported from the Site and properly disposed of at the R360 Environmental Solutions in Hobbs, New Mexico.

Laboratory analytical results for excavation confirmation floor soil sample FS08A indicated all COC concentrations were compliant with Closure Criteria. Laboratory analytical results are provided on Table 1 and laboratory analytical reports are included as Appendix B.

CLOSURE REQUEST

Remediation activities were conducted as approved in the *RRWP*. Laboratory analytical results for the final excavation confirmation soil samples indicated all COC concentrations were compliant with the applicable Closure Criteria. Thus, the release was delineated laterally by the final excavation sidewall samples and vertically by the final excavation floor samples and previously collected and analyzed delineation soil samples detailed in the *RRWP*. Maverick believes the remediation actions described above are protective of human health, the environment, groundwater, and other sensitive receptors. As such, Maverick respectfully requests closure for Incident Number NAPP2221675703. The Final C-141 is included as Appendix C.

The Site will be backfilled and recontoured to match pre-existing conditions followed by re-seeding the disturbed area with the appropriate Bureau of Land Management (BLM) seed mixture following approval of this report.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC

Kalei Jennings
Senior Scientist

Daniel R. Moir, PG
Senior Managing Geologist

cc: Bryce Wagoner, Maverick Natural Resources
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix C	Final C-141

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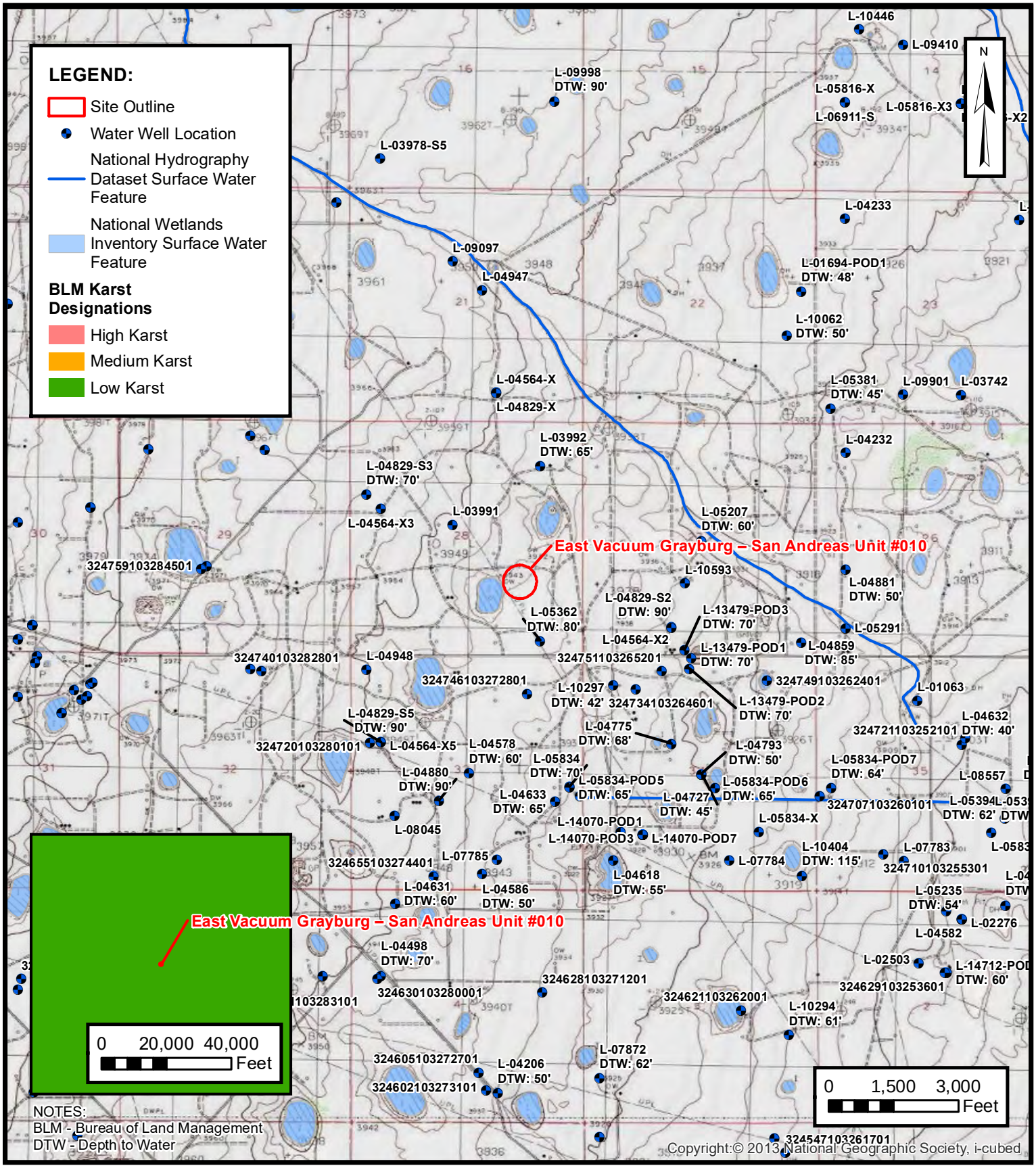
FIGURES



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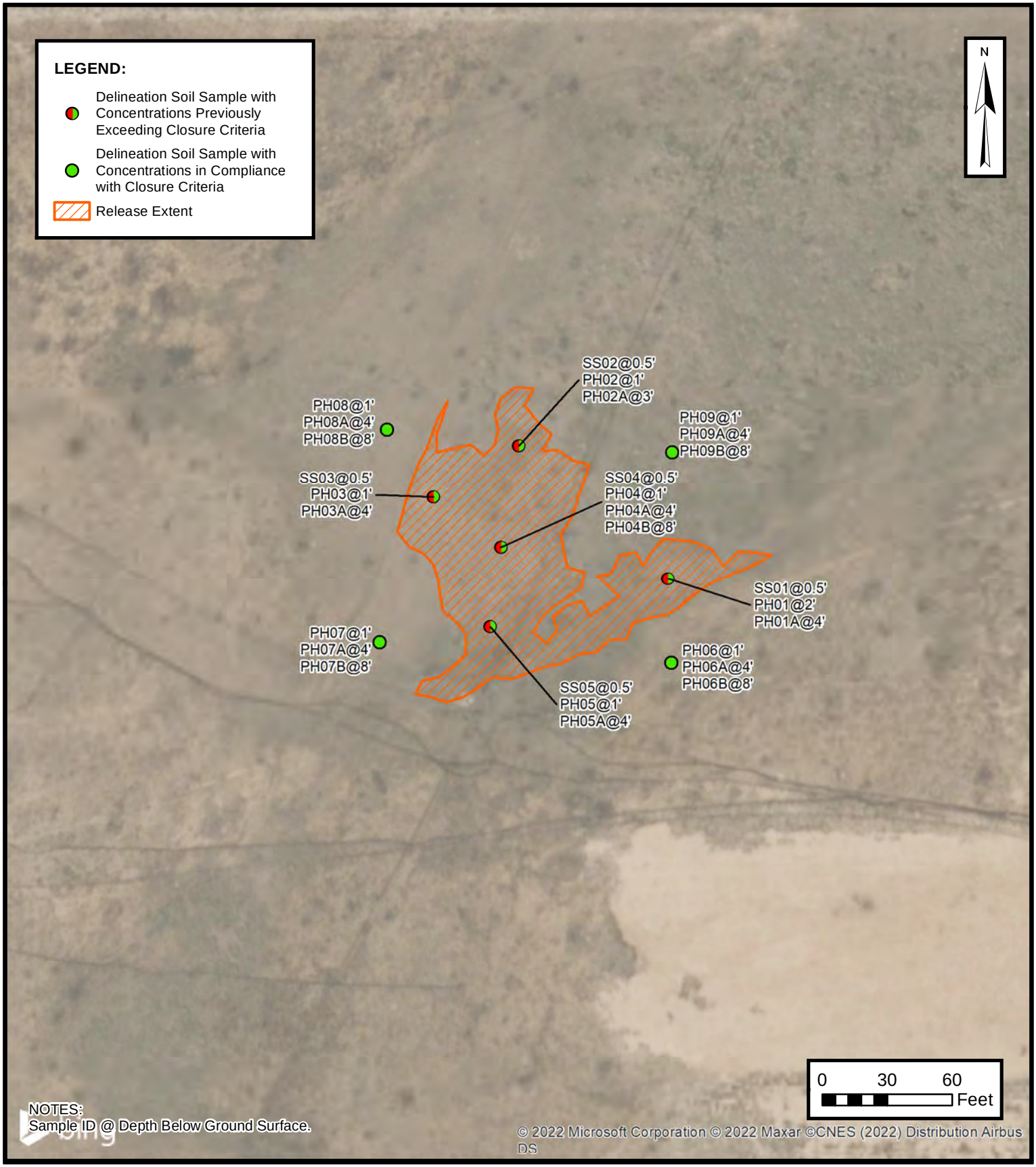
Environmental, Engineering and Hydrogeologic Consultants

SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
EAST VACUUM GRAYBURG – SAN ANDREAS UNIT #010
NAPP2221675703
Unit J, Sec 28, T17S, R35E
Lea County, New Mexico

FIGURE
1



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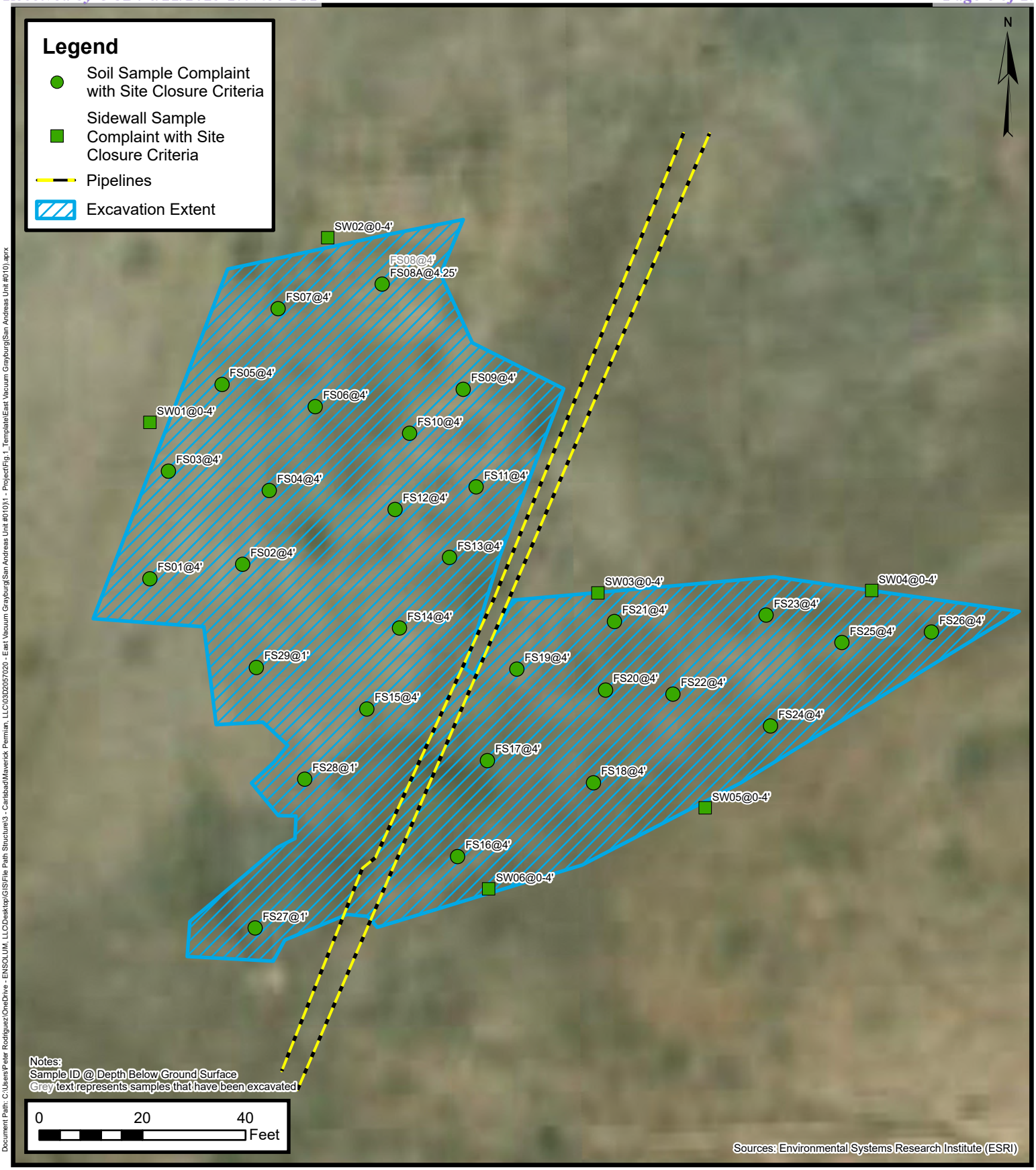
Environmental, Engineering and Hydrogeologic Consultants

DELINEATION SOIL SAMPLE LOCATIONS

MAVERICK PERMIAN, LLC
EAST VACUUM GRAYBURG - SAN ANDREAS UNIT #010
NAPP2221675703
Unit J, Sec 28, T17S, R35E
Lea County, New Mexico

FIGURE
2



Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\3 - Carlsbad\Maverick Permian, LLC\03D20257020 - East Vacuum Grayburg\San Andreas Unit #010\1 - Project\Fig_1_Template\East Vacuum Grayburg(San Andreas Unit #010).aprx

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Excavation Soil Samples

East Vacuum Grayburg – San Andreas Unit #010
Maverick Permian, LLC

Incident Number: NAPP2221675703

Unit J, Sec 28, T17S, R35E

Lea County, New Mexico

FIGURE

3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
East Vacuum Grayburg – San Andreas Unit #010
Maverick Permian, LLC
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10,000**
Excavation Soil Samples										
FS01	03/01/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	233
FS02	03/01/2023	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	2,440
FS03	03/01/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	59.0
FS04	03/01/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,210
FS05	03/01/2023	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	333
FS06	03/01/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,090
FS07	03/01/2023	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	257
FS08	03/01/2023	4	<0.00198	0.0807	254	1760	<49.9	**2,014**	2,014	1,930
FS08A	04/06/2023	4.25	<0.050	<0.300	<10.0	197	34.2	197	197	2,840
FS09	03/09/2023	4	<0.00200	<0.00399	<50.0	75.5	<50.0	75.5	75.5	1,470
FS10	03/09/2023	4	<0.00201	0.0116	<50.0	91.8	<50.0	91.8	91.8	1,830
FS11	03/09/2023	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	1,740
FS12	03/09/2023	4	<0.00199	<0.00398	<49.8	73.4	<49.8	73.4	73.4	1,790
FS13	03/09/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,510
FS14	03/09/2023	4	<0.00200	<0.00399	<50.0	50.0	<50.0	50.0	50.0	1,550
FS15	03/09/2023	4	<0.00201	<0.00402	<49.9	80.3	<49.9	80.3	80.3	4,730
FS16	03/10/2023	4	0.167	2.23	134	385	<49.9	519	519	1,740
FS17	03/10/2023	4	<0.0404	1.09	<50.0	51.2	<50.0	51.2	51.2	817
FS18	03/10/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	212
FS19	03/10/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	315
FS20	03/10/2023	4	<0.00198	<0.00396	<49.8	323	<49.8	323	323	3,490
FS21	03/10/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	261
FS22	03/10/2023	4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	1,780
FS23	03/10/2023	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	745
FS24	03/10/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	47.0
FS25	03/10/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	264
FS26	03/10/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	15.7
FS27	03/13/2023	4	<0.00200	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	830
FS28	03/13/2023	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	50.0
FS29	03/13/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	809
Sidewall Soil Samples										
SW01	03/01/2023	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	88.5
SW02	03/01/2023	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	107
SW03	03/10/2023	0 - 4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	214
SW04	03/10/2023	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	124
SW05	03/10/2023	0 - 4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	121
SW06	03/10/2023	0 - 4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	88.2

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*
Grey text represents samples that have been excavated

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APPENDIX A

Photographic Log

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Photographic Log
Maverick Permian, LLC
East Vacuum Grayburg - San Andres Unit #010
Incident Number NAPP2221675703

Photograph 1 Date: 02/28/2023
Description: Photo of excavation activity.

Photograph 2 Date:03/01/2023
Description: Photo of excavation extent.

Photograph 3 Date: 03/02/2023
Description: Photo of excavation activities.

Photograph 4 Date: 03/02/2023
Description: Photo of excavation.

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Photographic Log
Maverick Permian, LLC
East Vacuum Grayburg - San Andres Unit #010
Incident Number NAPP2221675703

Photograph 5 Date: 03/09/2023
Description: Photo of excavation.

Photograph 6 Date: 03/10/2023
Description: Photo of excavation activity.

Photograph 7 Date: 03/10/2023
Description: Photo of excavation extent.

Photograph 8 Date: 03/13/2023
Description: Photo of excavation extent.

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APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

EVGSAU 2801/Maverick
SDG NUMBER 03E2057020

JOB NUMBER

890-4222-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

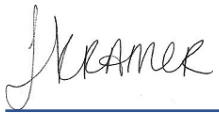
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Laboratory Job ID: 890-4222-1
SDG: 03E2057020

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Job ID: 890-4222-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4222-1

Receipt
The sample was received on 3/1/2023 4:16 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW02 (890-4222-1).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48205 and analytical batch 880-48323 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-47868/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Client Sample ID: SW02

Date Collected: 03/01/23 13:55
Date Received: 03/01/23 16:16
Sample Depth: 0-4'

Lab Sample ID: 890-4222-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 11:30	03/11/23 05:14	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 11:30	03/11/23 05:14	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 11:30	03/11/23 05:14	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		03/09/23 11:30	03/11/23 05:14	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		03/09/23 11:30	03/11/23 05:14	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		03/09/23 11:30	03/11/23 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/09/23 11:30*	*03/11/23 05:14*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/09/23 11:30*	*03/11/23 05:14*	*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			03/13/23 18:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 13:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/06/23 08:24*	*03/06/23 13:21*	*1*
o-Terphenyl	*130*		*70 - 130*	*03/06/23 08:24*	*03/06/23 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		5.00		mg/Kg			03/06/23 20:38	1

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4222-1	SW02	109	93
890-4222-1 MS	SW02	116	108
890-4222-1 MSD	SW02	112	103
LCS 880-48205/1-A	Lab Control Sample	120	108
LCSD 880-48205/2-A	Lab Control Sample Dup	112	109
MB 880-48205/5-A	Method Blank	110	102
MB 880-48309/5-A	Method Blank	103	100

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-25357-A-22-C MS	Matrix Spike	115	111
880-25357-A-22-D MSD	Matrix Spike Duplicate	105	106
890-4222-1	SW02	126	130
LCS 880-47868/2-A	Lab Control Sample	126	135 S1+
LCSD 880-47868/3-A	Lab Control Sample Dup	114	119
MB 880-47868/1-A	Method Blank	110	125

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48205/5-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 11:30	03/11/23 04:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/09/23 11:30*	*03/11/23 04:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/09/23 11:30*	*03/11/23 04:45*	*1*

Lab Sample ID: LCS 880-48205/1-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48205

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07627		mg/Kg		76	70 - 130		
Toluene			0.100	0.08361		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08693		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1866		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09372		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-48205/2-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48205

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08385		mg/Kg		84	70 - 130	9	35
Toluene			0.100	0.08105		mg/Kg		81	70 - 130	3	35
Ethylbenzene			0.100	0.08402		mg/Kg		84	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1821		mg/Kg		91	70 - 130	2	35
o-Xylene			0.100	0.08954		mg/Kg		90	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-4222-1 MS
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 48205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.05099	F1	mg/Kg		51	70 - 130		
Toluene	<0.00201	U F1	0.100	0.04796	F1	mg/Kg		48	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

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

Lab Sample ID: 890-4222-1 MS
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 48205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.04950	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1051	F1	mg/Kg		52	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.05308	F1	mg/Kg		52	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-4222-1 MSD
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 48205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0996	0.05009	F1	mg/Kg		50	70 - 130	2	35
Toluene	<0.00201	U F1	0.0996	0.05159	F1	mg/Kg		52	70 - 130	7	35
Ethylbenzene	<0.00201	U F1	0.0996	0.05362	F1	mg/Kg		54	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1113	F1	mg/Kg		56	70 - 130	6	35
o-Xylene	<0.00201	U F1	0.0996	0.05556	F1	mg/Kg		55	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-48309/5-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48309

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/10/23 11:09	03/10/23 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/10/23 11:09*	*03/10/23 17:11*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/10/23 11:09*	*03/10/23 17:11*	*1*

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

Lab Sample ID: MB 880-47868/1-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 08:33	1

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

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

Lab Sample ID: MB 880-47868/1-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47868

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*

Lab Sample ID: LCS 880-47868/2-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1067		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*135*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-47868/3-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	961.3		mg/Kg		96	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 880-25357-A-22-C MS
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	999.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1099		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

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

Lab Sample ID: 880-25357-A-22-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47856 — **Prep Batch: 47868**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1079		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1050		mg/Kg		105	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47840/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47996

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/06/23 19:00	1

Lab Sample ID: LCS 880-47840/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47996

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.1		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-47840/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47996

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	241.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-4216-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	85.8		252	330.7		mg/Kg		97	90 - 110		

Lab Sample ID: 890-4216-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	85.8		252	331.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

GC VOA

Prep Batch: 48205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Total/NA	Solid	5035	
MB 880-48205/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4222-1 MS	SW02	Total/NA	Solid	5035	
890-4222-1 MSD	SW02	Total/NA	Solid	5035	

Prep Batch: 48309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48309/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Total/NA	Solid	8021B	48205
MB 880-48205/5-A	Method Blank	Total/NA	Solid	8021B	48205
MB 880-48309/5-A	Method Blank	Total/NA	Solid	8021B	48309
LCS 880-48205/1-A	Lab Control Sample	Total/NA	Solid	8021B	48205
LCSD 880-48205/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48205
890-4222-1 MS	SW02	Total/NA	Solid	8021B	48205
890-4222-1 MSD	SW02	Total/NA	Solid	8021B	48205

Analysis Batch: 48554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Total/NA	Solid	8015B NM	47868
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015B NM	47868
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47868
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47868
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015B NM	47868
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47868

Prep Batch: 47868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Total/NA	Solid	8015NM Prep	
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

HPLC/IC

Leach Batch: 47840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Soluble	Solid	DI Leach	
MB 880-47840/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47840/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47840/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4216-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4216-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4222-1	SW02	Soluble	Solid	300.0	47840
MB 880-47840/1-A	Method Blank	Soluble	Solid	300.0	47840
LCS 880-47840/2-A	Lab Control Sample	Soluble	Solid	300.0	47840
LCSD 880-47840/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47840
890-4216-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	47840
890-4216-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47840

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Client Sample ID: SW02

Date Collected: 03/01/23 13:55
Date Received: 03/01/23 16:16

Lab Sample ID: 890-4222-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48323	03/11/23 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48554	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48047	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 13:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 20:38	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

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: EVGSAU 2801/Maverick

Job ID: 890-4222-1
SDG: 03E2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4222-1	SW02	Solid	03/01/23 13:55	03/01/23 16:16	0-4'

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Chain of Custody

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

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Work Order No: _____

Project Manager:	Josh Adams	Bill to: (if different)	~~Kalei Jennings~~ Josh Adams
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, ~~kennings@ensolum.com~~ falcomata@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	EVGSAU 2801/Maverick	Turn Around	☑ Routine ☐ Rush
Project Number:	03E2057020	Due Date:	
Project Location:	32.802535 -103.459545	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Julianna Falcomata		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#5 (007)	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.4	
Total Containers:		Corrected Temperature:	1.2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	TPH	CHLORIDES
SW02	S	8/1/23	1355	0-4'	C	1		✓	✓	✓

890-4222 Chain of Custody

Preservative Codes

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

Sample Comments

NAPP2221615703

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Falcomata	Amanda Stuf	3-1-23 1615			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4222-1
SDG Number: 03E2057020

Login Number: 4222
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4222-1
SDG Number: 03E2057020

Login Number: 4222
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/03/23 01:06 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/15/2023 3:43:02 PM

JOB DESCRIPTION

EVGSAU 2801/ Maverick
SDG NUMBER 03E2057020

JOB NUMBER

890-4223-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

Eurofins Carlsbad

Job Notes

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
3/15/2023 3:43:02 PM

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

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Laboratory Job ID: 890-4223-1
SDG: 03E2057020

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4223-1
Project/Site: EVGSAU 2801/ Maverick SDG: 03E2057020

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Job ID: 890-4223-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4223-1

Receipt
The sample was received on 3/1/2023 4:16 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW01 (890-4223-1).

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-47868/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW01 (890-4223-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Client Sample ID: SW01

Date Collected: 03/01/23 13:50
Date Received: 03/01/23 16:16
Sample Depth: 0-4'

Lab Sample ID: 890-4223-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		03/10/23 14:43	03/15/23 13:45	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		03/10/23 14:43	03/15/23 13:45	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		03/10/23 14:43	03/15/23 13:45	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		03/10/23 14:43	03/15/23 13:45	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		03/10/23 14:43	03/15/23 13:45	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		03/10/23 14:43	03/15/23 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/10/23 14:43*	*03/15/23 13:45*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/10/23 14:43*	*03/15/23 13:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 13:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*03/06/23 08:24*	*03/06/23 13:43*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*03/06/23 08:24*	*03/06/23 13:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.5**		5.04		mg/Kg			03/06/23 20:44	1

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4223-1	SW01	108	81
890-4223-1 MS	SW01	111	93
890-4223-1 MSD	SW01	109	94
LCS 880-48332/1-A	Lab Control Sample	102	89
LCSD 880-48332/2-A	Lab Control Sample Dup	99	90
MB 880-48332/5-A	Method Blank	84	94

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25357-A-22-C MS	Matrix Spike	115	111
880-25357-A-22-D MSD	Matrix Spike Duplicate	105	106
890-4223-1	SW01	130	136 S1+
LCS 880-47868/2-A	Lab Control Sample	126	135 S1+
LCSD 880-47868/3-A	Lab Control Sample Dup	114	119
MB 880-47868/1-A	Method Blank	110	125

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48332/5-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48332

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:43	03/15/23 13:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 14:43	03/15/23 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/10/23 14:43*	*03/15/23 13:23*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 14:43*	*03/15/23 13:23*	*1*

Lab Sample ID: LCS 880-48332/1-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48332

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07765		mg/Kg		78	70 - 130		
Toluene			0.100	0.07670		mg/Kg		77	70 - 130		
Ethylbenzene			0.100	0.07977		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1622		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08264		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-48332/2-A
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48332

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08413		mg/Kg		84	70 - 130	8	35
Toluene			0.100	0.08221		mg/Kg		82	70 - 130	7	35
Ethylbenzene			0.100	0.08334		mg/Kg		83	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1699		mg/Kg		85	70 - 130	5	35
o-Xylene			0.100	0.08958		mg/Kg		90	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-4223-1 MS
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 48332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.03352	F1	mg/Kg		33	70 - 130		
Toluene	<0.00201	U F1	0.100	0.03897	F1	mg/Kg		39	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

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

Lab Sample ID: 890-4223-1 MS
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 48332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.04351	F1	mg/Kg		43	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.08603	F1	mg/Kg		43	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.04474	F1	mg/Kg		45	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-4223-1 MSD
Matrix: Solid
Analysis Batch: 48639

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 48332

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0996	0.02719	F1	mg/Kg		27	70 - 130	21	35
Toluene	<0.00201	U F1	0.0996	0.03113	F1	mg/Kg		31	70 - 130	22	35
Ethylbenzene	<0.00201	U F1	0.0996	0.03380	F1	mg/Kg		34	70 - 130	25	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.06818	F1	mg/Kg		34	70 - 130	23	35
o-Xylene	<0.00201	U F1	0.0996	0.03787	F1	mg/Kg		38	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

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

Lab Sample ID: MB 880-47868/1-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 08:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*

Lab Sample ID: LCS 880-47868/2-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

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

Lab Sample ID: LCS 880-47868/2-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47868

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-47868/3-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	961.3		mg/Kg		96	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 880-25357-A-22-C MS
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	999.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1099		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-25357-A-22-D MSD
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1079		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1050		mg/Kg		105	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47840/1-A
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/06/23 19:00	1

Lab Sample ID: LCS 880-47840/2-A
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.1		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-47840/3-A
Matrix: Solid
Analysis Batch: 47996

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	241.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-4223-1 MS
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	88.5		252	342.2		mg/Kg		101	90 - 110		

Lab Sample ID: 890-4223-1 MSD
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.5		252	342.3		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

GC VOA

Prep Batch: 48332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Total/NA	Solid	5035	
MB 880-48332/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48332/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48332/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4223-1 MS	SW01	Total/NA	Solid	5035	
890-4223-1 MSD	SW01	Total/NA	Solid	5035	

Analysis Batch: 48629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Total/NA	Solid	Total BTEX	

Analysis Batch: 48639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Total/NA	Solid	8021B	48332
MB 880-48332/5-A	Method Blank	Total/NA	Solid	8021B	48332
LCS 880-48332/1-A	Lab Control Sample	Total/NA	Solid	8021B	48332
LCSD 880-48332/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48332
890-4223-1 MS	SW01	Total/NA	Solid	8021B	48332
890-4223-1 MSD	SW01	Total/NA	Solid	8021B	48332

GC Semi VOA

Analysis Batch: 47856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Total/NA	Solid	8015B NM	47868
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015B NM	47868
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47868
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47868
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015B NM	47868
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47868

Prep Batch: 47868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Total/NA	Solid	8015NM Prep	
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Soluble	Solid	DI Leach	
MB 880-47840/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47840/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47840/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

HPLC/IC (Continued)

Leach Batch: 47840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1 MS	SW01	Soluble	Solid	DI Leach	
890-4223-1 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 47996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-1	SW01	Soluble	Solid	300.0	47840
MB 880-47840/1-A	Method Blank	Soluble	Solid	300.0	47840
LCS 880-47840/2-A	Lab Control Sample	Soluble	Solid	300.0	47840
LCSD 880-47840/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47840
890-4223-1 MS	SW01	Soluble	Solid	300.0	47840
890-4223-1 MSD	SW01	Soluble	Solid	300.0	47840

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Client Sample ID: SW01

Date Collected: 03/01/23 13:50
Date Received: 03/01/23 16:16

Lab Sample ID: 890-4223-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48332	03/10/23 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48639	03/15/23 13:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48048	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 13:43	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 20:44	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

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: EVGSAU 2801/ Maverick

Job ID: 890-4223-1
SDG: 03E2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4223-1	SW01	Solid	03/01/23 13:50	03/01/23 16:16	0-4'

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Josh Adams	Bill to: (if different)	~~Kelsi Jennings~~ Josh Adams
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, ~~kjennings@ensolum.com~~ jfalcomata@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	EVGSAU 2801/Maverick	Turn Around	
Project Number:	1BE2057020	☑ Routine ☐ Rush	
Project Location:	32.802535, -103.459451	Due Date:	
Sampler's Name:	Julianna Falcomata	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		TAM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:		1.4	
Total Containers:		Corrected Temperature:		1.2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	TPH	CHLORIDES
SW01	S	3/1/23	1350	0-4'	C	1		/	/	/

890-4223 Chain of Custody

Preservative Codes

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

Sample Comments

NAPP2216157103

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Falcomata	Amanda Stif	3-1-23 1614	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4223-1
SDG Number: 03E2057020

Login Number: 4223
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4223-1
SDG Number: 03E2057020

Login Number: 4223
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/03/23 01:06 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/15/2023 3:53:23 PM

JOB DESCRIPTION

EVGSAU 2801/ Maverick
SDG NUMBER 03E2057020

JOB NUMBER

890-4224-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

Eurofins Carlsbad

Job Notes

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
3/15/2023 3:53:23 PM

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

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Laboratory Job ID: 890-4224-1
SDG: 03E2057020

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Job ID: 890-4224-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4224-1

Receipt
The samples were received on 3/1/2023 4:16 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4224-1), FS02 (890-4224-2), FS03 (890-4224-3), FS04 (890-4224-4), FS05 (890-4224-5), FS06 (890-4224-6), FS07 (890-4224-7) and FS08 (890-4224-8).

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-47868/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS01

Lab Sample ID: 890-4224-1
Matrix: Solid
Date Collected: 03/01/23 11:00
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 18:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 18:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 18:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/10/23 14:41	03/14/23 18:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 18:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/10/23 14:41	03/14/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/10/23 14:41*	*03/14/23 18:08*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 14:41*	*03/14/23 18:08*	*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			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 14:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 14:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/06/23 08:24*	*03/06/23 14:04*	*1*
o-Terphenyl	*121*		*70 - 130*	*03/06/23 08:24*	*03/06/23 14:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		4.98		mg/Kg			03/06/23 21:03	1

Client Sample ID: FS02

Lab Sample ID: 890-4224-2
Matrix: Solid
Date Collected: 03/01/23 11:05
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 18:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 18:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 18:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/10/23 14:41	03/14/23 18:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 18:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/10/23 14:41	03/14/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/10/23 14:41*	*03/14/23 18:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS02

Lab Sample ID: 890-4224-2
Matrix: Solid
Date Collected: 03/01/23 11:05
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/10/23 14:41*	*03/14/23 18:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/06/23 08:24	03/06/23 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/06/23 08:24	03/06/23 14:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/06/23 08:24	03/06/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*03/06/23 08:24*	*03/06/23 14:26*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/06/23 08:24*	*03/06/23 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2440**		24.8	mg/Kg			03/06/23 21:09	5

Client Sample ID: FS03

Lab Sample ID: 890-4224-3
Matrix: Solid
Date Collected: 03/01/23 11:10
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 18:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 18:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 18:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 18:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/10/23 14:41*	*03/14/23 18:49*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/10/23 14:41*	*03/14/23 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			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/07/23 13:47	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS03

Date Collected: 03/01/23 11:10
Date Received: 03/01/23 16:16
Sample Depth: 4'

Lab Sample ID: 890-4224-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 14:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 14:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*03/06/23 08:24*	*03/06/23 14:47*	*1*
o-Terphenyl	*118*		*70 - 130*	*03/06/23 08:24*	*03/06/23 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.0**		5.00		mg/Kg			03/06/23 21:27	1

Client Sample ID: FS04

Date Collected: 03/01/23 11:15
Date Received: 03/01/23 16:16
Sample Depth: 4'

Lab Sample ID: 890-4224-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/10/23 14:41	03/14/23 19:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/10/23 14:41	03/14/23 19:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/10/23 14:41	03/14/23 19:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/10/23 14:41	03/14/23 19:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/10/23 14:41	03/14/23 19:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/10/23 14:41	03/14/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/10/23 14:41*	*03/14/23 19:09*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/10/23 14:41*	*03/14/23 19:09*	*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			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 15:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*03/06/23 08:24*	*03/06/23 15:09*	*1*
o-Terphenyl	*126*		*70 - 130*	*03/06/23 08:24*	*03/06/23 15:09*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS04

Lab Sample ID: 890-4224-4
Matrix: Solid
Date Collected: 03/01/23 11:15
Date Received: 03/01/23 16:16
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		4.99		mg/Kg			03/06/23 21:34	1

Client Sample ID: FS05

Lab Sample ID: 890-4224-5
Matrix: Solid
Date Collected: 03/01/23 11:20
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 19:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 19:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 19:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/10/23 14:41	03/14/23 19:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 19:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/10/23 14:41	03/14/23 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/10/23 14:41*	*03/14/23 19:30*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 14:41*	*03/14/23 19:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/15/23 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 15:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 15:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*03/06/23 08:24*	*03/06/23 15:53*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/06/23 08:24*	*03/06/23 15:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333		5.05		mg/Kg			03/06/23 21:40	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS06

Lab Sample ID: 890-4224-6

Date Collected: 03/01/23 11:25
Matrix: Solid
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 19:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 19:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 19:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/10/23 14:41	03/14/23 19:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/10/23 14:41	03/14/23 19:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/10/23 14:41	03/14/23 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/10/23 14:41*	*03/14/23 19:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 14:41*	*03/14/23 19:50*	*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			03/15/23 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 16:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/06/23 08:24*	*03/06/23 16:15*	*1*
o-Terphenyl	*120*		*70 - 130*	*03/06/23 08:24*	*03/06/23 16:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		4.97		mg/Kg			03/06/23 21:46	1

Client Sample ID: FS07

Lab Sample ID: 890-4224-7

Date Collected: 03/01/23 11:30
Matrix: Solid
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 20:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 20:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 20:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/10/23 14:41	03/14/23 20:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/10/23 14:41	03/14/23 20:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/10/23 14:41	03/14/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/10/23 14:41*	*03/14/23 20:11*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS07

Lab Sample ID: 890-4224-7
Matrix: Solid
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 14:41*	*03/14/23 20:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/15/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 16:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 16:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/06/23 08:24	03/06/23 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*117*		*70 - 130*	*03/06/23 08:24*	*03/06/23 16:37*	*1*
o-Terphenyl	*122*		*70 - 130*	*03/06/23 08:24*	*03/06/23 16:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**257**		4.96	mg/Kg			03/06/23 21:52	1

Client Sample ID: FS08

Lab Sample ID: 890-4224-8
Matrix: Solid
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:16
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 20:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 20:31	1
Ethylbenzene	**0.0317**		0.00198	mg/Kg		03/10/23 14:41	03/14/23 20:31	1
m-Xylene & p-Xylene	**0.0490**		0.00396	mg/Kg		03/10/23 14:41	03/14/23 20:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 20:31	1
Xylenes, Total	**0.0490**		0.00396	mg/Kg		03/10/23 14:41	03/14/23 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/10/23 14:41*	*03/14/23 20:31*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/10/23 14:41*	*03/14/23 20:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0807**		0.00396	mg/Kg			03/15/23 16:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2010**		49.9	mg/Kg			03/07/23 13:47	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS08
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:16
Sample Depth: 4'

Lab Sample ID: 890-4224-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	254		49.9		mg/Kg		03/06/23 08:24	03/06/23 16:59	1
Diesel Range Organics (Over C10-C28)	1760		49.9		mg/Kg		03/06/23 08:24	03/06/23 16:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*03/06/23 08:24*	*03/06/23 16:59*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*03/06/23 08:24*	*03/06/23 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		25.0		mg/Kg			03/06/23 21:58	5

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4218-A-1-C MS	Matrix Spike	103	103
890-4218-A-1-D MSD	Matrix Spike Duplicate	104	101
890-4224-1	FS01	108	94
890-4224-2	FS02	100	91
890-4224-3	FS03	101	92
890-4224-4	FS04	98	91
890-4224-5	FS05	103	97
890-4224-6	FS06	104	94
890-4224-7	FS07	98	97
890-4224-8	FS08	102	101
LCS 880-48331/1-A	Lab Control Sample	102	100
LCSD 880-48331/2-A	Lab Control Sample Dup	100	103
MB 880-48331/5-A	Method Blank	94	91

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25357-A-22-C MS	Matrix Spike	115	111
880-25357-A-22-D MSD	Matrix Spike Duplicate	105	106
890-4224-1	FS01	108	121
890-4224-2	FS02	124	125
890-4224-3	FS03	121	118
890-4224-4	FS04	122	126
890-4224-5	FS05	122	125
890-4224-6	FS06	104	120
890-4224-7	FS07	117	122
890-4224-8	FS08	139 S1+	147 S1+
LCS 880-47868/2-A	Lab Control Sample	126	135 S1+
LCSD 880-47868/3-A	Lab Control Sample Dup	114	119
MB 880-47868/1-A	Method Blank	110	125

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48331/5-A
Matrix: Solid
Analysis Batch: 48569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/23 14:41	03/14/23 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 14:41	03/14/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 14:41	03/14/23 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 14:41*	*03/14/23 11:30*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/10/23 14:41*	*03/14/23 11:30*	*1*

Lab Sample ID: LCS 880-48331/1-A
Matrix: Solid
Analysis Batch: 48569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48331

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09897		mg/Kg		99	70 - 130		
Toluene			0.100	0.1036		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09955		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2043		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-48331/2-A
Matrix: Solid
Analysis Batch: 48569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48331

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1026		mg/Kg		103	70 - 130	4	35
Toluene			0.100	0.1052		mg/Kg		105	70 - 130	1	35
Ethylbenzene			0.100	0.1010		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2068		mg/Kg		103	70 - 130	1	35
o-Xylene			0.100	0.1031		mg/Kg		103	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-4218-A-1-C MS
Matrix: Solid
Analysis Batch: 48569

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.0998	0.06755	F1	mg/Kg		68	70 - 130		
Toluene	<0.00200	U F1	0.0998	0.06831	F1	mg/Kg		68	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

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

Lab Sample ID: 890-4218-A-1-C MS
Matrix: Solid
Analysis Batch: 48569

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.06445	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1307	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.06563	F1	mg/Kg		66	70 - 130

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

Lab Sample ID: 890-4218-A-1-D MSD
Matrix: Solid
Analysis Batch: 48569

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	0.08100		mg/Kg		82	70 - 130	18	35
Toluene	<0.00200	U F1	0.0990	0.08187		mg/Kg		83	70 - 130	18	35
Ethylbenzene	<0.00200	U F1	0.0990	0.07659		mg/Kg		77	70 - 130	17	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1554		mg/Kg		78	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.0990	0.07805		mg/Kg		79	70 - 130	17	35

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

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

Lab Sample ID: MB 880-47868/1-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47868

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*

Lab Sample ID: LCS 880-47868/2-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

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

Lab Sample ID: LCS 880-47868/2-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47868

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-47868/3-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	961.3		mg/Kg		96	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 880-25357-A-22-C MS
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	999.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1099		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-25357-A-22-D MSD
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1079		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1050		mg/Kg		105	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47840/1-A
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/06/23 19:00	1

Lab Sample ID: LCS 880-47840/2-A
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.1		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-47840/3-A
Matrix: Solid
Analysis Batch: 47996

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	241.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-4223-A-1-B MS
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	88.5		252	342.2		mg/Kg		101	90 - 110		

Lab Sample ID: 890-4223-A-1-C MSD
Matrix: Solid
Analysis Batch: 47996

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.5		252	342.3		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

GC VOA

Prep Batch: 48331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Total/NA	Solid	5035	
890-4224-2	FS02	Total/NA	Solid	5035	
890-4224-3	FS03	Total/NA	Solid	5035	
890-4224-4	FS04	Total/NA	Solid	5035	
890-4224-5	FS05	Total/NA	Solid	5035	
890-4224-6	FS06	Total/NA	Solid	5035	
890-4224-7	FS07	Total/NA	Solid	5035	
890-4224-8	FS08	Total/NA	Solid	5035	
MB 880-48331/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48331/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48331/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4218-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4218-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Total/NA	Solid	8021B	48331
890-4224-2	FS02	Total/NA	Solid	8021B	48331
890-4224-3	FS03	Total/NA	Solid	8021B	48331
890-4224-4	FS04	Total/NA	Solid	8021B	48331
890-4224-5	FS05	Total/NA	Solid	8021B	48331
890-4224-6	FS06	Total/NA	Solid	8021B	48331
890-4224-7	FS07	Total/NA	Solid	8021B	48331
890-4224-8	FS08	Total/NA	Solid	8021B	48331
MB 880-48331/5-A	Method Blank	Total/NA	Solid	8021B	48331
LCS 880-48331/1-A	Lab Control Sample	Total/NA	Solid	8021B	48331
LCSD 880-48331/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48331
890-4218-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	48331
890-4218-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48331

Analysis Batch: 48629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Total/NA	Solid	Total BTEX	
890-4224-2	FS02	Total/NA	Solid	Total BTEX	
890-4224-3	FS03	Total/NA	Solid	Total BTEX	
890-4224-4	FS04	Total/NA	Solid	Total BTEX	
890-4224-5	FS05	Total/NA	Solid	Total BTEX	
890-4224-6	FS06	Total/NA	Solid	Total BTEX	
890-4224-7	FS07	Total/NA	Solid	Total BTEX	
890-4224-8	FS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Total/NA	Solid	8015B NM	47868
890-4224-2	FS02	Total/NA	Solid	8015B NM	47868
890-4224-3	FS03	Total/NA	Solid	8015B NM	47868
890-4224-4	FS04	Total/NA	Solid	8015B NM	47868
890-4224-5	FS05	Total/NA	Solid	8015B NM	47868
890-4224-6	FS06	Total/NA	Solid	8015B NM	47868

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

GC Semi VOA (Continued)

Analysis Batch: 47856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-7	FS07	Total/NA	Solid	8015B NM	47868
890-4224-8	FS08	Total/NA	Solid	8015B NM	47868
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015B NM	47868
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47868
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47868
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015B NM	47868
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47868

Prep Batch: 47868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Total/NA	Solid	8015NM Prep	
890-4224-2	FS02	Total/NA	Solid	8015NM Prep	
890-4224-3	FS03	Total/NA	Solid	8015NM Prep	
890-4224-4	FS04	Total/NA	Solid	8015NM Prep	
890-4224-5	FS05	Total/NA	Solid	8015NM Prep	
890-4224-6	FS06	Total/NA	Solid	8015NM Prep	
890-4224-7	FS07	Total/NA	Solid	8015NM Prep	
890-4224-8	FS08	Total/NA	Solid	8015NM Prep	
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Total/NA	Solid	8015 NM	
890-4224-2	FS02	Total/NA	Solid	8015 NM	
890-4224-3	FS03	Total/NA	Solid	8015 NM	
890-4224-4	FS04	Total/NA	Solid	8015 NM	
890-4224-5	FS05	Total/NA	Solid	8015 NM	
890-4224-6	FS06	Total/NA	Solid	8015 NM	
890-4224-7	FS07	Total/NA	Solid	8015 NM	
890-4224-8	FS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Soluble	Solid	DI Leach	
890-4224-2	FS02	Soluble	Solid	DI Leach	
890-4224-3	FS03	Soluble	Solid	DI Leach	
890-4224-4	FS04	Soluble	Solid	DI Leach	
890-4224-5	FS05	Soluble	Solid	DI Leach	
890-4224-6	FS06	Soluble	Solid	DI Leach	
890-4224-7	FS07	Soluble	Solid	DI Leach	
890-4224-8	FS08	Soluble	Solid	DI Leach	
MB 880-47840/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47840/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47840/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4223-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

HPLC/IC (Continued)

Leach Batch: 47840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4223-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4224-1	FS01	Soluble	Solid	300.0	47840
890-4224-2	FS02	Soluble	Solid	300.0	47840
890-4224-3	FS03	Soluble	Solid	300.0	47840
890-4224-4	FS04	Soluble	Solid	300.0	47840
890-4224-5	FS05	Soluble	Solid	300.0	47840
890-4224-6	FS06	Soluble	Solid	300.0	47840
890-4224-7	FS07	Soluble	Solid	300.0	47840
890-4224-8	FS08	Soluble	Solid	300.0	47840
MB 880-47840/1-A	Method Blank	Soluble	Solid	300.0	47840
LCS 880-47840/2-A	Lab Control Sample	Soluble	Solid	300.0	47840
LCSD 880-47840/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47840
890-4223-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	47840
890-4223-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47840

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS01

Lab Sample ID: 890-4224-1
Matrix: Solid
Date Collected: 03/01/23 11:00
Date Received: 03/01/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 14:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 21:03	CH	EET MID

Client Sample ID: FS02

Lab Sample ID: 890-4224-2
Matrix: Solid
Date Collected: 03/01/23 11:05
Date Received: 03/01/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 14:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		5			47996	03/06/23 21:09	CH	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-4224-3
Matrix: Solid
Date Collected: 03/01/23 11:10
Date Received: 03/01/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 14:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 21:27	CH	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4224-4
Matrix: Solid
Date Collected: 03/01/23 11:15
Date Received: 03/01/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS04
Date Collected: 03/01/23 11:15
Date Received: 03/01/23 16:16

Lab Sample ID: 890-4224-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 15:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 21:34	CH	EET MID

Client Sample ID: FS05
Date Collected: 03/01/23 11:20
Date Received: 03/01/23 16:16

Lab Sample ID: 890-4224-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 19:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/15/23 16:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 15:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 21:40	CH	EET MID

Client Sample ID: FS06
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:16

Lab Sample ID: 890-4224-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 19:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/15/23 16:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 16:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 21:46	CH	EET MID

Client Sample ID: FS07
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:16

Lab Sample ID: 890-4224-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 20:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/15/23 16:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 16:37	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Client Sample ID: FS07

Lab Sample ID: 890-4224-7

Date Collected: 03/01/23 11:30
Matrix: Solid
Date Received: 03/01/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		1			47996	03/06/23 21:52	CH	EET MID

Client Sample ID: FS08

Lab Sample ID: 890-4224-8

Date Collected: 03/01/23 11:35
Matrix: Solid
Date Received: 03/01/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 20:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/15/23 16:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48049	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 16:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47840	03/05/23 14:43	CH	EET MID
Soluble	Analysis	300.0		5			47996	03/06/23 21:58	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

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: EVGSAU 2801/ Maverick

Job ID: 890-4224-1
SDG: 03E2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4224-1	FS01	Solid	03/01/23 11:00	03/01/23 16:16	4'
890-4224-2	FS02	Solid	03/01/23 11:05	03/01/23 16:16	4'
890-4224-3	FS03	Solid	03/01/23 11:10	03/01/23 16:16	4'
890-4224-4	FS04	Solid	03/01/23 11:15	03/01/23 16:16	4'
890-4224-5	FS05	Solid	03/01/23 11:20	03/01/23 16:16	4'
890-4224-6	FS06	Solid	03/01/23 11:25	03/01/23 16:16	4'
890-4224-7	FS07	Solid	03/01/23 11:30	03/01/23 16:16	4'
890-4224-8	FS08	Solid	03/01/23 11:35	03/01/23 16:16	4'

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Chain of Custody

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

www.xenco.com Page 1 of 1

Work Order No: _____

Project Manager:	Josh Adams	Bill to: (if different)	~~Kelei Jennings~~ Josh Adams
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, ~~kjennings@ensolum.com~~ jfalcomata@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	EVGSAU 2801 / Maverick	Turn Around	☑ Routine ☐ Rush
Project Number:	03E2057020	Due Date:	
Project Location:	32.805535, -103.459451	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Julianna Falcomata		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-[illegible]	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.4	
Total Containers:		Corrected Temperature:	1.2	

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	TPH	CHLORIDES	Sample Comments
FS01	S	3/1/23	1100	4'	C	1					NAPP2322165703
FS02			1105								
FS03			1110								
FS04			1115								
FS05			1120								
FS06			1125								
FS07			1130								
FS08	↓	↓	1135	↓	↓	↓					

890-4224 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Julianna Falcomata	Amanda Stuf	3-1-23 1616	2			
3				4			
5				6			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4224-1
SDG Number: 03E2057020

Login Number: 4224
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4224-1
SDG Number: 03E2057020

Login Number: 4224
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/03/23 01:06 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/22/2023 3:03:50 PM

JOB DESCRIPTION

EVGSAU 2801/ Maverick
SDG NUMBER 03E2057020

JOB NUMBER

890-4289-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

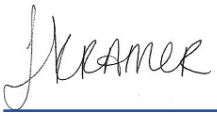
my EOL

Eurofins Carlsbad

Job Notes

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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3/22/2023 3:03:50 PM

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

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Laboratory Job ID: 890-4289-1
SDG: 03E2057020

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Job ID: 890-4289-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4289-1

Receipt
The samples were received on 3/10/2023 4:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS09 (890-4289-1), FS10 (890-4289-2), FS11 (890-4289-3), FS12 (890-4289-4), FS13 (890-4289-5), FS14 (890-4289-6) and FS15 (890-4289-7).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48612 and analytical batch 880-48564 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-48612 and analytical batch 880-48564 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS09

Lab Sample ID: 890-4289-1
Matrix: Solid
Date Collected: 03/09/23 11:10
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 19:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 19:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 19:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/17/23 16:23	03/21/23 19:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 19:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/17/23 16:23	03/21/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/17/23 16:23*	*03/21/23 19:24*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/17/23 16:23*	*03/21/23 19:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**75.5**		50.0		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 03:56	1
Diesel Range Organics (Over C10-C28)	**75.5**		50.0		mg/Kg		03/14/23 13:36	03/15/23 03:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/14/23 13:36*	*03/15/23 03:56*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/14/23 13:36*	*03/15/23 03:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		24.9		mg/Kg			03/20/23 01:02	5

Client Sample ID: FS10

Lab Sample ID: 890-4289-2
Matrix: Solid
Date Collected: 03/09/23 11:15
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 19:45	1
Toluene	**0.00566**		0.00201		mg/Kg		03/17/23 16:23	03/21/23 19:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 19:45	1
m-Xylene & p-Xylene	**0.00589**		0.00402		mg/Kg		03/17/23 16:23	03/21/23 19:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 19:45	1
Xylenes, Total	**0.00589**		0.00402		mg/Kg		03/17/23 16:23	03/21/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/17/23 16:23*	*03/21/23 19:45*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS10

Lab Sample ID: 890-4289-2
Matrix: Solid
Date Collected: 03/09/23 11:15
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/17/23 16:23*	*03/21/23 19:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0116**		0.00402		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**91.8**		50.0		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 04:18	1
Diesel Range Organics (Over C10-C28)	**91.8**		50.0		mg/Kg		03/14/23 13:36	03/15/23 04:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/14/23 13:36*	*03/15/23 04:18*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/14/23 13:36*	*03/15/23 04:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1830**		24.8		mg/Kg			03/20/23 01:07	5

Client Sample ID: FS11

Lab Sample ID: 890-4289-3
Matrix: Solid
Date Collected: 03/09/23 11:20
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/17/23 16:23	03/21/23 20:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/17/23 16:23	03/21/23 20:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/17/23 16:23	03/21/23 20:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/17/23 16:23	03/21/23 20:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/17/23 16:23	03/21/23 20:06	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/17/23 16:23	03/21/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/17/23 16:23*	*03/21/23 20:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/17/23 16:23*	*03/21/23 20:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/22/23 15:38	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			03/21/23 09:53	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS11

Lab Sample ID: 890-4289-3
Matrix: Solid
Date Collected: 03/09/23 11:20
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 04:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/14/23 13:36*	*03/15/23 04:40*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/14/23 13:36*	*03/15/23 04:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1740**		24.9		mg/Kg			03/20/23 01:11	5

Client Sample ID: FS12

Lab Sample ID: 890-4289-4
Matrix: Solid
Date Collected: 03/09/23 11:25
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/17/23 16:23	03/21/23 20:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/17/23 16:23	03/21/23 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/17/23 16:23*	*03/21/23 20:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/17/23 16:23*	*03/21/23 20:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**73.4**		49.8		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 13:36	03/15/23 05:02	1
Diesel Range Organics (Over C10-C28)	**73.4**		49.8		mg/Kg		03/14/23 13:36	03/15/23 05:02	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 13:36	03/15/23 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*03/14/23 13:36*	*03/15/23 05:02*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/14/23 13:36*	*03/15/23 05:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS12

Lab Sample ID: 890-4289-4
Matrix: Solid
Date Collected: 03/09/23 11:25
Date Received: 03/10/23 16:07
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		25.0		mg/Kg			03/20/23 01:16	5

Client Sample ID: FS13

Lab Sample ID: 890-4289-5
Matrix: Solid
Date Collected: 03/09/23 11:30
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/17/23 16:23	03/21/23 20:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/17/23 16:23	03/21/23 20:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/17/23 16:23	03/21/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/17/23 16:23*	*03/21/23 20:47*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/17/23 16:23*	*03/21/23 20:47*	*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			03/22/23 15:38	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			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 05:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 05:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/14/23 13:36*	*03/15/23 05:24*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/14/23 13:36*	*03/15/23 05:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		25.2		mg/Kg			03/19/23 17:37	5

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS14

Lab Sample ID: 890-4289-6
Matrix: Solid
Date Collected: 03/09/23 11:35
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 21:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 21:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 21:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/17/23 16:23	03/21/23 21:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 21:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/17/23 16:23	03/21/23 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/17/23 16:23*	*03/21/23 21:08*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/17/23 16:23*	*03/21/23 21:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.0**		50.0		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:39	03/17/23 03:56	1
Diesel Range Organics (Over C10-C28)	**50.0**		50.0		mg/Kg		03/14/23 13:39	03/17/23 03:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:39	03/17/23 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/14/23 13:39*	*03/17/23 03:56*	*1*
o-Terphenyl	*87*		*70 - 130*	*03/14/23 13:39*	*03/17/23 03:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1550**		25.1		mg/Kg			03/19/23 17:52	5

Client Sample ID: FS15

Lab Sample ID: 890-4289-7
Matrix: Solid
Date Collected: 03/09/23 11:40
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 21:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 21:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 21:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/17/23 16:23	03/21/23 21:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/17/23 16:23	03/21/23 21:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/17/23 16:23	03/21/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/17/23 16:23*	*03/21/23 21:29*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS15

Date Collected: 03/09/23 11:40
Date Received: 03/10/23 16:07
Sample Depth: 4'

Lab Sample ID: 890-4289-7

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/17/23 16:23*	*03/21/23 21:29*	*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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**80.3**		49.9		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:39	03/17/23 04:17	1
Diesel Range Organics (Over C10-C28)	**80.3**		49.9		mg/Kg		03/14/23 13:39	03/17/23 04:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:39	03/17/23 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*03/14/23 13:39*	*03/17/23 04:17*	*1*
o-Terphenyl	*78*		*70 - 130*	*03/14/23 13:39*	*03/17/23 04:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4730**		50.5		mg/Kg			03/19/23 17:56	10

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-4276-A-10-D MS	Matrix Spike	106	97										
890-4276-A-10-E MSD	Matrix Spike Duplicate	118	95										
890-4289-1	FS09	105	86										
890-4289-2	FS10	107	102										
890-4289-3	FS11	100	96										
890-4289-4	FS12	101	105										
890-4289-5	FS13	104	102										
890-4289-6	FS14	104	88										
890-4289-7	FS15	98	104										
LCS 880-48857/1-A	Lab Control Sample	99	101										
LCSD 880-48857/2-A	Lab Control Sample Dup	101	94										
MB 880-48857/5-A	Method Blank	96	78										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-4288-A-41-B MS	Matrix Spike	78	80										
890-4288-A-41-C MSD	Matrix Spike Duplicate	81	84										
890-4289-1	FS09	89	83										
890-4289-2	FS10	95	89										
890-4289-3	FS11	106	98										
890-4289-4	FS12	91	86										
890-4289-5	FS13	99	91										
890-4289-6	FS14	99	87										
890-4289-7	FS15	90	78										
890-4290-A-1-B MS	Matrix Spike	103	91										
890-4290-A-1-C MSD	Matrix Spike Duplicate	92	78										
LCS 880-48612/2-A	Lab Control Sample	126	115										
LCS 880-48613/2-A	Lab Control Sample	104	104										
LCSD 880-48612/3-A	Lab Control Sample Dup	101	105										
LCSD 880-48613/3-A	Lab Control Sample Dup	101	109										
MB 880-48612/1-A	Method Blank	136 S1+	133 S1+										
MB 880-48613/1-A	Method Blank	108	98										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48857/5-A
Matrix: Solid
Analysis Batch: 49106

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48857

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 13:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 13:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 13:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/17/23 16:23	03/21/23 13:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/17/23 16:23	03/21/23 13:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/17/23 16:23	03/21/23 13:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/17/23 16:23*	*03/21/23 13:53*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/17/23 16:23*	*03/21/23 13:53*	*1*

Lab Sample ID: LCS 880-48857/1-A
Matrix: Solid
Analysis Batch: 49106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48857

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09970		mg/Kg		100	70 - 130		
Toluene			0.100	0.09729		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09785		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.1970		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09809		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-48857/2-A
Matrix: Solid
Analysis Batch: 49106

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48857

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09119		mg/Kg		91	70 - 130	9	35
Toluene			0.100	0.09262		mg/Kg		93	70 - 130	5	35
Ethylbenzene			0.100	0.09236		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1882		mg/Kg		94	70 - 130	5	35
o-Xylene			0.100	0.09421		mg/Kg		94	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-4276-A-10-D MS
Matrix: Solid
Analysis Batch: 49106

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08050		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.08331		mg/Kg		83	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

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

Lab Sample ID: 890-4276-A-10-D MS
Matrix: Solid
Analysis Batch: 49106

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08221		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1756		mg/Kg		87	70 - 130
o-Xylene	<0.00200	U	0.100	0.08729		mg/Kg		87	70 - 130

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

Lab Sample ID: 890-4276-A-10-E MSD
Matrix: Solid
Analysis Batch: 49106

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08018		mg/Kg		81	70 - 130	0	35
Toluene	<0.00200	U	0.0990	0.09049		mg/Kg		91	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0990	0.1028		mg/Kg		104	70 - 130	22	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2090		mg/Kg		106	70 - 130	17	35
o-Xylene	<0.00200	U	0.0990	0.1043		mg/Kg		105	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 880-48612/1-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48612

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 20:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 20:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*03/14/23 13:36*	*03/14/23 20:14*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*03/14/23 13:36*	*03/14/23 20:14*	*1*

Lab Sample ID: LCS 880-48612/2-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48612

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	913.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1071		mg/Kg		107	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

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

Lab Sample ID: LCS 880-48612/2-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48612

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-48612/3-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48612

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	951.1		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	974.5		mg/Kg		97	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-4290-A-1-B MS
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	134		997	1123		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	385	F1	997	1171		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-4290-A-1-C MSD
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	134		996	1001		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	385	F1	996	994.3	F1	mg/Kg		61	70 - 130	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	78		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

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

Lab Sample ID: MB 880-48613/1-A
Matrix: Solid
Analysis Batch: 48703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48613

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:39	03/16/23 20:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 13:39	03/16/23 20:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:39	03/16/23 20:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/14/23 13:39*	*03/16/23 20:06*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/14/23 13:39*	*03/16/23 20:06*	*1*

Lab Sample ID: LCS 880-48613/2-A
Matrix: Solid
Analysis Batch: 48703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48613

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	903.7		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1082		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-48613/3-A
Matrix: Solid
Analysis Batch: 48703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48613

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1037		mg/Kg		104	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	1108		mg/Kg		111	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 890-4288-A-41-B MS
Matrix: Solid
Analysis Batch: 48703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	816.0		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	75.8		998	889.7		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

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

Lab Sample ID: 890-4288-A-41-B MS
Matrix: Solid
Analysis Batch: 48703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48613

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 890-4288-A-41-C MSD
Matrix: Solid
Analysis Batch: 48703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	1076	F2	mg/Kg		108	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	75.8		999	935.7		mg/Kg		86	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	84		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48619/1-A
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/19/23 17:23	1

Lab Sample ID: LCS 880-48619/2-A
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-48619/3-A
Matrix: Solid
Analysis Batch: 49113

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-4289-5 MS
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: FS13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1510		1260	2713		mg/Kg		96	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4289-5 MSD
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: FS13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1510		1260	2717		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-48620/1-A
Matrix: Solid
Analysis Batch: 49117

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/19/23 22:51	1

Lab Sample ID: LCS 880-48620/2-A
Matrix: Solid
Analysis Batch: 49117

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.1		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-48620/3-A
Matrix: Solid
Analysis Batch: 49117

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	265.3		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-4288-A-41-E MS
Matrix: Solid
Analysis Batch: 49117

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2270		1240	3582		mg/Kg		106	90 - 110		

Lab Sample ID: 890-4288-A-41-F MSD
Matrix: Solid
Analysis Batch: 49117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2270		1240	3592		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

GC VOA

Prep Batch: 48857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Total/NA	Solid	5035	
890-4289-2	FS10	Total/NA	Solid	5035	
890-4289-3	FS11	Total/NA	Solid	5035	
890-4289-4	FS12	Total/NA	Solid	5035	
890-4289-5	FS13	Total/NA	Solid	5035	
890-4289-6	FS14	Total/NA	Solid	5035	
890-4289-7	FS15	Total/NA	Solid	5035	
MB 880-48857/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48857/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48857/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4276-A-10-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4276-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Total/NA	Solid	8021B	48857
890-4289-2	FS10	Total/NA	Solid	8021B	48857
890-4289-3	FS11	Total/NA	Solid	8021B	48857
890-4289-4	FS12	Total/NA	Solid	8021B	48857
890-4289-5	FS13	Total/NA	Solid	8021B	48857
890-4289-6	FS14	Total/NA	Solid	8021B	48857
890-4289-7	FS15	Total/NA	Solid	8021B	48857
MB 880-48857/5-A	Method Blank	Total/NA	Solid	8021B	48857
LCS 880-48857/1-A	Lab Control Sample	Total/NA	Solid	8021B	48857
LCSD 880-48857/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48857
890-4276-A-10-D MS	Matrix Spike	Total/NA	Solid	8021B	48857
890-4276-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48857

Analysis Batch: 49220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Total/NA	Solid	Total BTEX	
890-4289-2	FS10	Total/NA	Solid	Total BTEX	
890-4289-3	FS11	Total/NA	Solid	Total BTEX	
890-4289-4	FS12	Total/NA	Solid	Total BTEX	
890-4289-5	FS13	Total/NA	Solid	Total BTEX	
890-4289-6	FS14	Total/NA	Solid	Total BTEX	
890-4289-7	FS15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Total/NA	Solid	8015B NM	48612
890-4289-2	FS10	Total/NA	Solid	8015B NM	48612
890-4289-3	FS11	Total/NA	Solid	8015B NM	48612
890-4289-4	FS12	Total/NA	Solid	8015B NM	48612
890-4289-5	FS13	Total/NA	Solid	8015B NM	48612
MB 880-48612/1-A	Method Blank	Total/NA	Solid	8015B NM	48612
LCS 880-48612/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48612
LCSD 880-48612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48612
890-4290-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48612

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

GC Semi VOA (Continued)

Analysis Batch: 48564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48612

Prep Batch: 48612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Total/NA	Solid	8015NM Prep	
890-4289-2	FS10	Total/NA	Solid	8015NM Prep	
890-4289-3	FS11	Total/NA	Solid	8015NM Prep	
890-4289-4	FS12	Total/NA	Solid	8015NM Prep	
890-4289-5	FS13	Total/NA	Solid	8015NM Prep	
MB 880-48612/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48612/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4290-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4290-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 48613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-6	FS14	Total/NA	Solid	8015NM Prep	
890-4289-7	FS15	Total/NA	Solid	8015NM Prep	
MB 880-48613/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48613/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48613/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4288-A-41-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4288-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-6	FS14	Total/NA	Solid	8015B NM	48613
890-4289-7	FS15	Total/NA	Solid	8015B NM	48613
MB 880-48613/1-A	Method Blank	Total/NA	Solid	8015B NM	48613
LCS 880-48613/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48613
LCSD 880-48613/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48613
890-4288-A-41-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48613
890-4288-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48613

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Total/NA	Solid	8015 NM	
890-4289-2	FS10	Total/NA	Solid	8015 NM	
890-4289-3	FS11	Total/NA	Solid	8015 NM	
890-4289-4	FS12	Total/NA	Solid	8015 NM	
890-4289-5	FS13	Total/NA	Solid	8015 NM	
890-4289-6	FS14	Total/NA	Solid	8015 NM	
890-4289-7	FS15	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-5	FS13	Soluble	Solid	DI Leach	
890-4289-6	FS14	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

HPLC/IC (Continued)

Leach Batch: 48619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-7	FS15	Soluble	Solid	DI Leach	
MB 880-48619/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48619/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48619/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4289-5 MS	FS13	Soluble	Solid	DI Leach	
890-4289-5 MSD	FS13	Soluble	Solid	DI Leach	

Leach Batch: 48620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Soluble	Solid	DI Leach	
890-4289-2	FS10	Soluble	Solid	DI Leach	
890-4289-3	FS11	Soluble	Solid	DI Leach	
890-4289-4	FS12	Soluble	Solid	DI Leach	
MB 880-48620/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48620/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48620/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4288-A-41-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4288-A-41-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-5	FS13	Soluble	Solid	300.0	48619
890-4289-6	FS14	Soluble	Solid	300.0	48619
890-4289-7	FS15	Soluble	Solid	300.0	48619
MB 880-48619/1-A	Method Blank	Soluble	Solid	300.0	48619
LCS 880-48619/2-A	Lab Control Sample	Soluble	Solid	300.0	48619
LCSD 880-48619/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48619
890-4289-5 MS	FS13	Soluble	Solid	300.0	48619
890-4289-5 MSD	FS13	Soluble	Solid	300.0	48619

Analysis Batch: 49117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4289-1	FS09	Soluble	Solid	300.0	48620
890-4289-2	FS10	Soluble	Solid	300.0	48620
890-4289-3	FS11	Soluble	Solid	300.0	48620
890-4289-4	FS12	Soluble	Solid	300.0	48620
MB 880-48620/1-A	Method Blank	Soluble	Solid	300.0	48620
LCS 880-48620/2-A	Lab Control Sample	Soluble	Solid	300.0	48620
LCSD 880-48620/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48620
890-4288-A-41-E MS	Matrix Spike	Soluble	Solid	300.0	48620
890-4288-A-41-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48620

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS09

Date Collected: 03/09/23 11:10
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 03:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48620	03/14/23 15:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49117	03/20/23 01:02	SMC	EET MID

Client Sample ID: FS10

Date Collected: 03/09/23 11:15
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 04:18	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48620	03/14/23 15:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49117	03/20/23 01:07	SMC	EET MID

Client Sample ID: FS11

Date Collected: 03/09/23 11:20
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 20:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 04:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48620	03/14/23 15:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49117	03/20/23 01:11	SMC	EET MID

Client Sample ID: FS12

Date Collected: 03/09/23 11:25
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 20:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS12
Date Collected: 03/09/23 11:25
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 05:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48620	03/14/23 15:04	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49117	03/20/23 01:16	SMC	EET MID

Client Sample ID: FS13
Date Collected: 03/09/23 11:30
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 05:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49113	03/19/23 17:37	SMC	EET MID

Client Sample ID: FS14
Date Collected: 03/09/23 11:35
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 21:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48613	03/14/23 13:39	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48703	03/17/23 03:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49113	03/19/23 17:52	SMC	EET MID

Client Sample ID: FS15
Date Collected: 03/09/23 11:40
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 21:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48613	03/14/23 13:39	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48703	03/17/23 04:17	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Client Sample ID: FS15

Date Collected: 03/09/23 11:40
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4289-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49113	03/19/23 17:56	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

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: EVGSAU 2801/ Maverick

Job ID: 890-4289-1
SDG: 03E2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4289-1	FS09	Solid	03/09/23 11:10	03/10/23 16:07	4'
890-4289-2	FS10	Solid	03/09/23 11:15	03/10/23 16:07	4'
890-4289-3	FS11	Solid	03/09/23 11:20	03/10/23 16:07	4'
890-4289-4	FS12	Solid	03/09/23 11:25	03/10/23 16:07	4'
890-4289-5	FS13	Solid	03/09/23 11:30	03/10/23 16:07	4'
890-4289-6	FS14	Solid	03/09/23 11:35	03/10/23 16:07	4'
890-4289-7	FS15	Solid	03/09/23 11:40	03/10/23 16:07	4'

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Chain of Custody

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

www.xenco.com

Work Order No: _____

Page 1 of 1

Project Manager:	Josh Adams	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, kjennings@ensolum.com, falcomata@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	QUASAR 28-27 Maverick	Turn Around	
Project Number:	03E2057020	☑ Routine ☐ Rush	
Project Location:	32.402535, -103.459434	Due Date:	
Sampler's Name:	Julianna Falcomata	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

Preservative Codes

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

890-4289 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	TPH	CHLORIDES	Sample Comments
FS09	S	3/9/23	1110	4'	C	1				NAPP2221675708
FS10	S	3/9/23	1115	4'	C	1				
FS11	S	3/9/23	1120	4'	C	1				
FS12	S	3/9/23	1125	4'	C	1				
FS13	S	3/9/23	1130	4'	C	1				
FS14	S	3/9/23	1135	4'	C	1				
FS15	S	3/9/23	1140	4'	C	1				
~~FS16~~										
~~FS17~~										

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Julianna Falcomata	Alex Cruz	3.10.23 1607	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4289-1
SDG Number: 03E2057020

Login Number: 4289
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4289-1
SDG Number: 03E2057020

Login Number: 4289
List Number: 2
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	Refer to job narrative
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4289-1
SDG Number: 03E2057020

Login Number: 4289
List Number: 3
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/14/23 11:33 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/22/2023 3:39:21 PM

JOB DESCRIPTION

EVGSAU 2801/ Maverick
SDG NUMBER 03E2057020

JOB NUMBER

890-4290-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

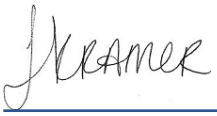
See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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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Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Laboratory Job ID: 890-4290-1
SDG: 03E2057020

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Job ID: 890-4290-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4290-1

Receipt
The samples were received on 3/10/2023 4:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS16 (890-4290-1), FS17 (890-4290-2), FS18 (890-4290-3), FS19 (890-4290-4), FS20 (890-4290-5), FS21 (890-4290-6), FS22 (890-4290-7), FS23 (890-4290-8), FS24 (890-4290-9), FS25 (890-4290-10), FS26 (890-4290-11), SW03 (890-4290-12), SW04 (890-4290-13), SW05 (890-4290-14) and SW06 (890-4290-15).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: FS16 (890-4290-1), FS17 (890-4290-2), FS19 (890-4290-4), FS22 (890-4290-7), FS24 (890-4290-9), FS25 (890-4290-10) and SW05 (890-4290-14). 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 880-48612 and analytical batch 880-48564 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-48612 and analytical batch 880-48564 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS16

Lab Sample ID: 890-4290-1
Matrix: Solid
Date Collected: 03/10/23 11:00
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.167**		0.0402		mg/Kg		03/20/23 11:36	03/22/23 03:09	20
Toluene	<0.0402	U	0.0402		mg/Kg		03/20/23 11:36	03/22/23 03:09	20
Ethylbenzene	**0.678**		0.0402		mg/Kg		03/20/23 11:36	03/22/23 03:09	20
m-Xylene & p-Xylene	**0.890**		0.0805		mg/Kg		03/20/23 11:36	03/22/23 03:09	20
o-Xylene	**0.494**		0.0402		mg/Kg		03/20/23 11:36	03/22/23 03:09	20
Xylenes, Total	**1.38**		0.0805		mg/Kg		03/20/23 11:36	03/22/23 03:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*	*03/20/23 11:36*	*03/22/23 03:09*	*20*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/20/23 11:36*	*03/22/23 03:09*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**2.23**		0.0805		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**519**		49.9		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**134**		49.9		mg/Kg		03/14/23 13:36	03/14/23 21:19	1
Diesel Range Organics (Over C10-C28)	**385**	**F1**	49.9		mg/Kg		03/14/23 13:36	03/14/23 21:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/14/23 13:36*	*03/14/23 21:19*	*1*
o-Terphenyl	*109*		*70 - 130*	*03/14/23 13:36*	*03/14/23 21:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1740**		25.1		mg/Kg			03/19/23 18:01	5

Client Sample ID: FS17

Lab Sample ID: 890-4290-2
Matrix: Solid
Date Collected: 03/10/23 11:05
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0404	U	0.0404		mg/Kg		03/20/23 11:36	03/22/23 03:29	20
Toluene	<0.0404	U	0.0404		mg/Kg		03/20/23 11:36	03/22/23 03:29	20
Ethylbenzene	<0.0404	U	0.0404		mg/Kg		03/20/23 11:36	03/22/23 03:29	20
m-Xylene & p-Xylene	<0.0808	U	0.0808		mg/Kg		03/20/23 11:36	03/22/23 03:29	20
o-Xylene	**1.09**		0.0404		mg/Kg		03/20/23 11:36	03/22/23 03:29	20
Xylenes, Total	**1.09**		0.0808		mg/Kg		03/20/23 11:36	03/22/23 03:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*03/20/23 11:36*	*03/22/23 03:29*	*20*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS17

Lab Sample ID: 890-4290-2
Matrix: Solid
Date Collected: 03/10/23 11:05
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/20/23 11:36*	*03/22/23 03:29*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.09**		0.0808	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.2**		50.0	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:36	03/14/23 22:24	1
Diesel Range Organics (Over C10-C28)	**51.2**		50.0	mg/Kg		03/14/23 13:36	03/14/23 22:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/23 13:36	03/14/23 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*03/14/23 13:36*	*03/14/23 22:24*	*1*
o-Terphenyl	*85*		*70 - 130*	*03/14/23 13:36*	*03/14/23 22:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**817**		4.99	mg/Kg			03/19/23 18:06	1

Client Sample ID: FS18

Lab Sample ID: 890-4290-3
Matrix: Solid
Date Collected: 03/10/23 11:10
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 00:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 00:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 00:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:36	03/22/23 00:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 00:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:36	03/22/23 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/20/23 11:36*	*03/22/23 00:45*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*03/20/23 11:36*	*03/22/23 00:45*	*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			03/22/23 15:38	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			03/21/23 09:53	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS18

Date Collected: 03/10/23 11:10
Date Received: 03/10/23 16:07
Sample Depth: 4'

Lab Sample ID: 890-4290-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 22:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 22:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/14/23 13:36*	*03/14/23 22:46*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/14/23 13:36*	*03/14/23 22:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**212**		5.00		mg/Kg			03/19/23 18:21	1

Client Sample ID: FS19

Date Collected: 03/10/23 11:15
Date Received: 03/10/23 16:07
Sample Depth: 4'

Lab Sample ID: 890-4290-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 01:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 01:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 01:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 01:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 01:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/20/23 11:36*	*03/22/23 01:06*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*03/20/23 11:36*	*03/22/23 01:06*	*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			03/22/23 15:38	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			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 23:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 23:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/14/23 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*03/14/23 13:36*	*03/14/23 23:08*	*1*
o-Terphenyl	*105*		*70 - 130*	*03/14/23 13:36*	*03/14/23 23:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS19

Lab Sample ID: 890-4290-4
Matrix: Solid
Date Collected: 03/10/23 11:15
Date Received: 03/10/23 16:07
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		5.00		mg/Kg			03/19/23 18:25	1

Client Sample ID: FS20

Lab Sample ID: 890-4290-5
Matrix: Solid
Date Collected: 03/10/23 11:20
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 01:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 01:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 01:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/20/23 11:36	03/22/23 01:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 01:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/20/23 11:36	03/22/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/20/23 11:36*	*03/22/23 01:26*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*03/20/23 11:36*	*03/22/23 01:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**323**		49.8		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 13:36	03/14/23 23:30	1
Diesel Range Organics (Over C10-C28)	**323**		49.8		mg/Kg		03/14/23 13:36	03/14/23 23:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 13:36	03/14/23 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/14/23 13:36*	*03/14/23 23:30*	*1*
o-Terphenyl	*104*		*70 - 130*	*03/14/23 13:36*	*03/14/23 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3490**		25.1		mg/Kg			03/19/23 18:30	5

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS21

Lab Sample ID: 890-4290-6
Matrix: Solid
Date Collected: 03/10/23 11:25
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/20/23 11:36	03/22/23 01:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/20/23 11:36	03/22/23 01:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/20/23 11:36	03/22/23 01:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/20/23 11:36	03/22/23 01:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/20/23 11:36	03/22/23 01:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/20/23 11:36	03/22/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*03/20/23 11:36*	*03/22/23 01:47*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*03/20/23 11:36*	*03/22/23 01:47*	*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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 23:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 23:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/14/23 13:36*	*03/14/23 23:52*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/14/23 13:36*	*03/14/23 23:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**		4.98		mg/Kg			03/19/23 18:35	1

Client Sample ID: FS22

Lab Sample ID: 890-4290-7
Matrix: Solid
Date Collected: 03/10/23 11:30
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 02:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 02:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 02:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/20/23 11:36	03/22/23 02:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 02:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/20/23 11:36	03/22/23 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/20/23 11:36*	*03/22/23 02:07*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS22

Date Collected: 03/10/23 11:30
Date Received: 03/10/23 16:07
Sample Depth: 4'

Lab Sample ID: 890-4290-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*03/20/23 11:36*	*03/22/23 02:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/14/23 13:36	03/15/23 00:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/14/23 13:36	03/15/23 00:14	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/14/23 13:36	03/15/23 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*03/14/23 13:36*	*03/15/23 00:14*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/14/23 13:36*	*03/15/23 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1780**		25.0	mg/Kg			03/19/23 18:40	5

Client Sample ID: FS23

Date Collected: 03/10/23 11:35
Date Received: 03/10/23 16:07
Sample Depth: 4'

Lab Sample ID: 890-4290-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 02:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 02:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 02:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/20/23 11:36	03/22/23 02:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 02:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/20/23 11:36	03/22/23 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/20/23 11:36*	*03/22/23 02:28*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*03/20/23 11:36*	*03/22/23 02:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/22/23 15:38	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			03/21/23 09:53	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS23

Lab Sample ID: 890-4290-8
Matrix: Solid
Date Collected: 03/10/23 11:35
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 00:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*03/14/23 13:36*	*03/15/23 00:36*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/14/23 13:36*	*03/15/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**745**		4.98		mg/Kg			03/19/23 18:45	1

Client Sample ID: FS24

Lab Sample ID: 890-4290-9
Matrix: Solid
Date Collected: 03/10/23 13:40
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 02:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 02:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 02:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 02:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 02:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/20/23 11:36*	*03/22/23 02:48*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*03/20/23 11:36*	*03/22/23 02:48*	*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			03/22/23 15:38	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			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 00:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*03/14/23 13:36*	*03/15/23 00:58*	*1*
o-Terphenyl	*82*		*70 - 130*	*03/14/23 13:36*	*03/15/23 00:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS24

Lab Sample ID: 890-4290-9
Matrix: Solid
Date Collected: 03/10/23 13:40
Date Received: 03/10/23 16:07
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		4.96		mg/Kg			03/19/23 18:59	1

Client Sample ID: FS25

Lab Sample ID: 890-4290-10
Matrix: Solid
Date Collected: 03/10/23 13:45
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 05:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/20/23 11:36*	*03/22/23 05:13*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*03/20/23 11:36*	*03/22/23 05:13*	*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			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 01:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/14/23 13:36*	*03/15/23 01:21*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/14/23 13:36*	*03/15/23 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		5.04		mg/Kg			03/19/23 19:04	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS26

Lab Sample ID: 890-4290-11
Matrix: Solid
Date Collected: 03/10/23 13:50
Date Received: 03/10/23 16:07
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 05:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/20/23 11:36	03/22/23 05:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/20/23 11:36	03/22/23 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/20/23 11:36*	*03/22/23 05:34*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/20/23 11:36*	*03/22/23 05:34*	*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			03/22/23 15:38	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			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 02:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 02:04	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*03/14/23 13:36*	*03/15/23 02:04*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/14/23 13:36*	*03/15/23 02:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.7**		4.95		mg/Kg			03/19/23 19:19	1

Client Sample ID: SW03

Lab Sample ID: 890-4290-12
Matrix: Solid
Date Collected: 03/10/23 13:55
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 05:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 05:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 05:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/20/23 11:36	03/22/23 05:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 05:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/20/23 11:36	03/22/23 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/20/23 11:36*	*03/22/23 05:54*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: SW03

Lab Sample ID: 890-4290-12
Matrix: Solid
Date Collected: 03/10/23 13:55
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/20/23 11:36*	*03/22/23 05:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:36	03/15/23 02:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/23 13:36	03/15/23 02:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/23 13:36	03/15/23 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*107*		*70 - 130*	*03/14/23 13:36*	*03/15/23 02:27*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/14/23 13:36*	*03/15/23 02:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**214**		5.03	mg/Kg			03/19/23 19:23	1

Client Sample ID: SW04

Lab Sample ID: 890-4290-13
Matrix: Solid
Date Collected: 03/10/23 14:00
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:36	03/22/23 06:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:36	03/22/23 06:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:36	03/22/23 06:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/20/23 11:36	03/22/23 06:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:36	03/22/23 06:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/20/23 11:36	03/22/23 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/20/23 11:36*	*03/22/23 06:15*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/20/23 11:36*	*03/22/23 06:15*	*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			03/22/23 15:38	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			03/21/23 09:53	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: SW04

Lab Sample ID: 890-4290-13
Matrix: Solid
Date Collected: 03/10/23 14:00
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 02:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 02:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/14/23 13:36*	*03/15/23 02:49*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/14/23 13:36*	*03/15/23 02:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		5.01		mg/Kg			03/19/23 19:28	1

Client Sample ID: SW05

Lab Sample ID: 890-4290-14
Matrix: Solid
Date Collected: 03/10/23 14:05
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 06:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 06:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 06:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/20/23 11:36	03/22/23 06:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/20/23 11:36	03/22/23 06:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/20/23 11:36	03/22/23 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/20/23 11:36*	*03/22/23 06:35*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*03/20/23 11:36*	*03/22/23 06:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/22/23 15:38	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			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 03:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 13:36	03/15/23 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/14/23 13:36*	*03/15/23 03:11*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/14/23 13:36*	*03/15/23 03:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: SW05

Lab Sample ID: 890-4290-14
Matrix: Solid
Date Collected: 03/10/23 14:05
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.97		mg/Kg			03/19/23 19:33	1

Client Sample ID: SW06

Lab Sample ID: 890-4290-15
Matrix: Solid
Date Collected: 03/10/23 14:10
Date Received: 03/10/23 16:07
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 06:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 06:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 06:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/20/23 11:36	03/22/23 06:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/20/23 11:36	03/22/23 06:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/20/23 11:36	03/22/23 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/20/23 11:36*	*03/22/23 06:56*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/20/23 11:36*	*03/22/23 06:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 03:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 03:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/15/23 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/14/23 13:36*	*03/15/23 03:34*	*1*
o-Terphenyl	*88*		*70 - 130*	*03/14/23 13:36*	*03/15/23 03:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.2		4.99		mg/Kg			03/19/23 19:38	1

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4290-1	FS16	169 S1+	88
890-4290-2	FS17	133 S1+	88
890-4290-3	FS18	95	72
890-4290-3 MS	FS18	128	94
890-4290-3 MSD	FS18	124	93
890-4290-4	FS19	97	67 S1-
890-4290-5	FS20	98	73
890-4290-6	FS21	83	75
890-4290-7	FS22	100	68 S1-
890-4290-8	FS23	97	77
890-4290-9	FS24	96	70
890-4290-10	FS25	89	68 S1-
890-4290-11	FS26	84	78
890-4290-12	SW03	82	83
890-4290-13	SW04	82	82
890-4290-14	SW05	96	69 S1-
890-4290-15	SW06	82	85
LCS 880-48984/1-A	Lab Control Sample	121	102
LCSD 880-48984/2-A	Lab Control Sample Dup	119	90
MB 880-48984/5-A	Method Blank	75	82
MB 880-49091/5-A	Method Blank	72	75

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4290-1	FS16	110	109
890-4290-1 MS	FS16	103	91
890-4290-1 MSD	FS16	92	78
890-4290-2	FS17	90	85
890-4290-3	FS18	108	105
890-4290-4	FS19	107	105
890-4290-5	FS20	106	104
890-4290-6	FS21	106	102
890-4290-7	FS22	109	103
890-4290-8	FS23	96	89
890-4290-9	FS24	90	82
890-4290-10	FS25	105	97
890-4290-11	FS26	96	89
890-4290-12	SW03	107	101
890-4290-13	SW04	103	97
890-4290-14	SW05	94	89
890-4290-15	SW06	89	88
LCS 880-48612/2-A	Lab Control Sample	126	115

Surrogate Summary

Client: Ensolum Job ID: 890-4290-1
Project/Site: EVGSAU 2801/ Maverick SDG: 03E2057020

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCSD 880-48612/3-A	Lab Control Sample Dup	101	105								
MB 880-48612/1-A	Method Blank	136 S1+	133 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48984/5-A
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48984

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 00:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 00:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 00:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/20/23 11:36	03/22/23 00:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/23 11:36	03/22/23 00:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/20/23 11:36	03/22/23 00:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*03/20/23 11:36*	*03/22/23 00:23*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/20/23 11:36*	*03/22/23 00:23*	*1*

Lab Sample ID: LCS 880-48984/1-A
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48984

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09595		mg/Kg		96	70 - 130		
Toluene			0.100	0.09660		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1046		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2320		mg/Kg		116	70 - 130		
o-Xylene			0.100	0.1173		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-48984/2-A
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48984

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09375		mg/Kg		94	70 - 130	2	35
Toluene			0.100	0.09803		mg/Kg		98	70 - 130	1	35
Ethylbenzene			0.100	0.1074		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2387		mg/Kg		119	70 - 130	3	35
o-Xylene			0.100	0.1192		mg/Kg		119	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-4290-3 MS
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: FS18
Prep Type: Total/NA
Prep Batch: 48984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.07354		mg/Kg		73	70 - 130		
Toluene	<0.00199	U	0.101	0.07910		mg/Kg		78	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

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

Lab Sample ID: 890-4290-3 MS
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: FS18
Prep Type: Total/NA
Prep Batch: 48984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.09230		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1982		mg/Kg		98	70 - 130
o-Xylene	<0.00199	U	0.101	0.09868		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-4290-3 MSD
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: FS18
Prep Type: Total/NA
Prep Batch: 48984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.07219		mg/Kg		72	70 - 130	2	35
Toluene	<0.00199	U	0.0996	0.08061		mg/Kg		81	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0996	0.09368		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1996		mg/Kg		100	70 - 130	1	35
o-Xylene	<0.00199	U	0.0996	0.09918		mg/Kg		99	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-49091/5-A
Matrix: Solid
Analysis Batch: 49077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49091

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/21/23 09:28	03/21/23 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*03/21/23 09:28*	*03/21/23 12:45*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*03/21/23 09:28*	*03/21/23 12:45*	*1*

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

Lab Sample ID: MB 880-48612/1-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48612

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:36	03/14/23 20:14	1

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

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

Lab Sample ID: MB 880-48612/1-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48612

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 20:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 13:36	03/14/23 20:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*03/14/23 13:36*	*03/14/23 20:14*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*03/14/23 13:36*	*03/14/23 20:14*	*1*

Lab Sample ID: LCS 880-48612/2-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48612

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	913.6		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1071		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-48612/3-A
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48612

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	951.1		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	974.5		mg/Kg		97	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 890-4290-1 MS
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: FS16
Prep Type: Total/NA
Prep Batch: 48612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	134		997	1123		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	385	F1	997	1171		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

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

Lab Sample ID: 890-4290-1 MSD
Matrix: Solid
Analysis Batch: 48564

Client Sample ID: FS16
Prep Type: Total/NA
Prep Batch: 48612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	134		996	1001		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	385	F1	996	994.3	F1	mg/Kg		61	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48619/1-A
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/19/23 17:23	1

Lab Sample ID: LCS 880-48619/2-A
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-48619/3-A
Matrix: Solid
Analysis Batch: 49113

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-4290-8 MS
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: FS23
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	745		249	1003		mg/Kg		104	90 - 110		

Lab Sample ID: 890-4290-8 MSD
Matrix: Solid
Analysis Batch: 49113

Client Sample ID: FS23
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	745		249	1005		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

GC VOA

Prep Batch: 48984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Total/NA	Solid	5035	
890-4290-2	FS17	Total/NA	Solid	5035	
890-4290-3	FS18	Total/NA	Solid	5035	
890-4290-4	FS19	Total/NA	Solid	5035	
890-4290-5	FS20	Total/NA	Solid	5035	
890-4290-6	FS21	Total/NA	Solid	5035	
890-4290-7	FS22	Total/NA	Solid	5035	
890-4290-8	FS23	Total/NA	Solid	5035	
890-4290-9	FS24	Total/NA	Solid	5035	
890-4290-10	FS25	Total/NA	Solid	5035	
890-4290-11	FS26	Total/NA	Solid	5035	
890-4290-12	SW03	Total/NA	Solid	5035	
890-4290-13	SW04	Total/NA	Solid	5035	
890-4290-14	SW05	Total/NA	Solid	5035	
890-4290-15	SW06	Total/NA	Solid	5035	
MB 880-48984/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48984/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48984/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4290-3 MS	FS18	Total/NA	Solid	5035	
890-4290-3 MSD	FS18	Total/NA	Solid	5035	

Analysis Batch: 49077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Total/NA	Solid	8021B	48984
890-4290-2	FS17	Total/NA	Solid	8021B	48984
890-4290-3	FS18	Total/NA	Solid	8021B	48984
890-4290-4	FS19	Total/NA	Solid	8021B	48984
890-4290-5	FS20	Total/NA	Solid	8021B	48984
890-4290-6	FS21	Total/NA	Solid	8021B	48984
890-4290-7	FS22	Total/NA	Solid	8021B	48984
890-4290-8	FS23	Total/NA	Solid	8021B	48984
890-4290-9	FS24	Total/NA	Solid	8021B	48984
890-4290-10	FS25	Total/NA	Solid	8021B	48984
890-4290-11	FS26	Total/NA	Solid	8021B	48984
890-4290-12	SW03	Total/NA	Solid	8021B	48984
890-4290-13	SW04	Total/NA	Solid	8021B	48984
890-4290-14	SW05	Total/NA	Solid	8021B	48984
890-4290-15	SW06	Total/NA	Solid	8021B	48984
MB 880-48984/5-A	Method Blank	Total/NA	Solid	8021B	48984
MB 880-49091/5-A	Method Blank	Total/NA	Solid	8021B	49091
LCS 880-48984/1-A	Lab Control Sample	Total/NA	Solid	8021B	48984
LCSD 880-48984/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48984
890-4290-3 MS	FS18	Total/NA	Solid	8021B	48984
890-4290-3 MSD	FS18	Total/NA	Solid	8021B	48984

Prep Batch: 49091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49091/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

GC VOA

Analysis Batch: 49220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Total/NA	Solid	Total BTEX	
890-4290-2	FS17	Total/NA	Solid	Total BTEX	
890-4290-3	FS18	Total/NA	Solid	Total BTEX	
890-4290-4	FS19	Total/NA	Solid	Total BTEX	
890-4290-5	FS20	Total/NA	Solid	Total BTEX	
890-4290-6	FS21	Total/NA	Solid	Total BTEX	
890-4290-7	FS22	Total/NA	Solid	Total BTEX	
890-4290-8	FS23	Total/NA	Solid	Total BTEX	
890-4290-9	FS24	Total/NA	Solid	Total BTEX	
890-4290-10	FS25	Total/NA	Solid	Total BTEX	
890-4290-11	FS26	Total/NA	Solid	Total BTEX	
890-4290-12	SW03	Total/NA	Solid	Total BTEX	
890-4290-13	SW04	Total/NA	Solid	Total BTEX	
890-4290-14	SW05	Total/NA	Solid	Total BTEX	
890-4290-15	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Total/NA	Solid	8015B NM	48612
890-4290-2	FS17	Total/NA	Solid	8015B NM	48612
890-4290-3	FS18	Total/NA	Solid	8015B NM	48612
890-4290-4	FS19	Total/NA	Solid	8015B NM	48612
890-4290-5	FS20	Total/NA	Solid	8015B NM	48612
890-4290-6	FS21	Total/NA	Solid	8015B NM	48612
890-4290-7	FS22	Total/NA	Solid	8015B NM	48612
890-4290-8	FS23	Total/NA	Solid	8015B NM	48612
890-4290-9	FS24	Total/NA	Solid	8015B NM	48612
890-4290-10	FS25	Total/NA	Solid	8015B NM	48612
890-4290-11	FS26	Total/NA	Solid	8015B NM	48612
890-4290-12	SW03	Total/NA	Solid	8015B NM	48612
890-4290-13	SW04	Total/NA	Solid	8015B NM	48612
890-4290-14	SW05	Total/NA	Solid	8015B NM	48612
890-4290-15	SW06	Total/NA	Solid	8015B NM	48612
MB 880-48612/1-A	Method Blank	Total/NA	Solid	8015B NM	48612
LCS 880-48612/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48612
LCSD 880-48612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48612
890-4290-1 MS	FS16	Total/NA	Solid	8015B NM	48612
890-4290-1 MSD	FS16	Total/NA	Solid	8015B NM	48612

Prep Batch: 48612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Total/NA	Solid	8015NM Prep	
890-4290-2	FS17	Total/NA	Solid	8015NM Prep	
890-4290-3	FS18	Total/NA	Solid	8015NM Prep	
890-4290-4	FS19	Total/NA	Solid	8015NM Prep	
890-4290-5	FS20	Total/NA	Solid	8015NM Prep	
890-4290-6	FS21	Total/NA	Solid	8015NM Prep	
890-4290-7	FS22	Total/NA	Solid	8015NM Prep	
890-4290-8	FS23	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

GC Semi VOA (Continued)

Prep Batch: 48612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-9	FS24	Total/NA	Solid	8015NM Prep	
890-4290-10	FS25	Total/NA	Solid	8015NM Prep	
890-4290-11	FS26	Total/NA	Solid	8015NM Prep	
890-4290-12	SW03	Total/NA	Solid	8015NM Prep	
890-4290-13	SW04	Total/NA	Solid	8015NM Prep	
890-4290-14	SW05	Total/NA	Solid	8015NM Prep	
890-4290-15	SW06	Total/NA	Solid	8015NM Prep	
MB 880-48612/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48612/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4290-1 MS	FS16	Total/NA	Solid	8015NM Prep	
890-4290-1 MSD	FS16	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Total/NA	Solid	8015 NM	
890-4290-2	FS17	Total/NA	Solid	8015 NM	
890-4290-3	FS18	Total/NA	Solid	8015 NM	
890-4290-4	FS19	Total/NA	Solid	8015 NM	
890-4290-5	FS20	Total/NA	Solid	8015 NM	
890-4290-6	FS21	Total/NA	Solid	8015 NM	
890-4290-7	FS22	Total/NA	Solid	8015 NM	
890-4290-8	FS23	Total/NA	Solid	8015 NM	
890-4290-9	FS24	Total/NA	Solid	8015 NM	
890-4290-10	FS25	Total/NA	Solid	8015 NM	
890-4290-11	FS26	Total/NA	Solid	8015 NM	
890-4290-12	SW03	Total/NA	Solid	8015 NM	
890-4290-13	SW04	Total/NA	Solid	8015 NM	
890-4290-14	SW05	Total/NA	Solid	8015 NM	
890-4290-15	SW06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Soluble	Solid	DI Leach	
890-4290-2	FS17	Soluble	Solid	DI Leach	
890-4290-3	FS18	Soluble	Solid	DI Leach	
890-4290-4	FS19	Soluble	Solid	DI Leach	
890-4290-5	FS20	Soluble	Solid	DI Leach	
890-4290-6	FS21	Soluble	Solid	DI Leach	
890-4290-7	FS22	Soluble	Solid	DI Leach	
890-4290-8	FS23	Soluble	Solid	DI Leach	
890-4290-9	FS24	Soluble	Solid	DI Leach	
890-4290-10	FS25	Soluble	Solid	DI Leach	
890-4290-11	FS26	Soluble	Solid	DI Leach	
890-4290-12	SW03	Soluble	Solid	DI Leach	
890-4290-13	SW04	Soluble	Solid	DI Leach	
890-4290-14	SW05	Soluble	Solid	DI Leach	
890-4290-15	SW06	Soluble	Solid	DI Leach	
MB 880-48619/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

HPLC/IC (Continued)

Leach Batch: 48619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-48619/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48619/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4290-8 MS	FS23	Soluble	Solid	DI Leach	
890-4290-8 MSD	FS23	Soluble	Solid	DI Leach	

Analysis Batch: 49113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4290-1	FS16	Soluble	Solid	300.0	48619
890-4290-2	FS17	Soluble	Solid	300.0	48619
890-4290-3	FS18	Soluble	Solid	300.0	48619
890-4290-4	FS19	Soluble	Solid	300.0	48619
890-4290-5	FS20	Soluble	Solid	300.0	48619
890-4290-6	FS21	Soluble	Solid	300.0	48619
890-4290-7	FS22	Soluble	Solid	300.0	48619
890-4290-8	FS23	Soluble	Solid	300.0	48619
890-4290-9	FS24	Soluble	Solid	300.0	48619
890-4290-10	FS25	Soluble	Solid	300.0	48619
890-4290-11	FS26	Soluble	Solid	300.0	48619
890-4290-12	SW03	Soluble	Solid	300.0	48619
890-4290-13	SW04	Soluble	Solid	300.0	48619
890-4290-14	SW05	Soluble	Solid	300.0	48619
890-4290-15	SW06	Soluble	Solid	300.0	48619
MB 880-48619/1-A	Method Blank	Soluble	Solid	300.0	48619
LCS 880-48619/2-A	Lab Control Sample	Soluble	Solid	300.0	48619
LCSD 880-48619/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48619
890-4290-8 MS	FS23	Soluble	Solid	300.0	48619
890-4290-8 MSD	FS23	Soluble	Solid	300.0	48619

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS16

Lab Sample ID: 890-4290-1
Matrix: Solid
Date Collected: 03/10/23 11:00
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49077	03/22/23 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 21:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49113	03/19/23 18:01	SMC	EET MID

Client Sample ID: FS17

Lab Sample ID: 890-4290-2
Matrix: Solid
Date Collected: 03/10/23 11:05
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49077	03/22/23 03:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 22:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 18:06	SMC	EET MID

Client Sample ID: FS18

Lab Sample ID: 890-4290-3
Matrix: Solid
Date Collected: 03/10/23 11:10
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 22:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 18:21	SMC	EET MID

Client Sample ID: FS19

Lab Sample ID: 890-4290-4
Matrix: Solid
Date Collected: 03/10/23 11:15
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS19

Date Collected: 03/10/23 11:15
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 18:25	SMC	EET MID

Client Sample ID: FS20

Date Collected: 03/10/23 11:20
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49113	03/19/23 18:30	SMC	EET MID

Client Sample ID: FS21

Date Collected: 03/10/23 11:25
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 18:35	SMC	EET MID

Client Sample ID: FS22

Date Collected: 03/10/23 11:30
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 00:14	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS22

Date Collected: 03/10/23 11:30
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49113	03/19/23 18:40	SMC	EET MID

Client Sample ID: FS23

Date Collected: 03/10/23 11:35
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 02:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 18:45	SMC	EET MID

Client Sample ID: FS24

Date Collected: 03/10/23 13:40
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 02:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 00:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 18:59	SMC	EET MID

Client Sample ID: FS25

Date Collected: 03/10/23 13:45
Date Received: 03/10/23 16:07

Lab Sample ID: 890-4290-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 19:04	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: FS26

Lab Sample ID: 890-4290-11

Date Collected: 03/10/23 13:50
Matrix: Solid
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 02:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 19:19	SMC	EET MID

Client Sample ID: SW03

Lab Sample ID: 890-4290-12

Date Collected: 03/10/23 13:55
Matrix: Solid
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 02:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 19:23	SMC	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-4290-13

Date Collected: 03/10/23 14:00
Matrix: Solid
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 02:49	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 19:28	SMC	EET MID

Client Sample ID: SW05

Lab Sample ID: 890-4290-14

Date Collected: 03/10/23 14:05
Matrix: Solid
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 06:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Client Sample ID: SW05

Lab Sample ID: 890-4290-14
Matrix: Solid
Date Collected: 03/10/23 14:05
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 19:33	SMC	EET MID

Client Sample ID: SW06

Lab Sample ID: 890-4290-15
Matrix: Solid
Date Collected: 03/10/23 14:10
Date Received: 03/10/23 16:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48612	03/14/23 13:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/15/23 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48619	03/14/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49113	03/19/23 19:38	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

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: EVGSAU 2801/ Maverick

Job ID: 890-4290-1
SDG: 03E2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4290-1	FS16	Solid	03/10/23 11:00	03/10/23 16:07	4'
890-4290-2	FS17	Solid	03/10/23 11:05	03/10/23 16:07	4'
890-4290-3	FS18	Solid	03/10/23 11:10	03/10/23 16:07	4'
890-4290-4	FS19	Solid	03/10/23 11:15	03/10/23 16:07	4'
890-4290-5	FS20	Solid	03/10/23 11:20	03/10/23 16:07	4'
890-4290-6	FS21	Solid	03/10/23 11:25	03/10/23 16:07	4'
890-4290-7	FS22	Solid	03/10/23 11:30	03/10/23 16:07	4'
890-4290-8	FS23	Solid	03/10/23 11:35	03/10/23 16:07	4'
890-4290-9	FS24	Solid	03/10/23 13:40	03/10/23 16:07	4'
890-4290-10	FS25	Solid	03/10/23 13:45	03/10/23 16:07	4'
890-4290-11	FS26	Solid	03/10/23 13:50	03/10/23 16:07	4'
890-4290-12	SW03	Solid	03/10/23 13:55	03/10/23 16:07	0-4'
890-4290-13	SW04	Solid	03/10/23 14:00	03/10/23 16:07	0-4'
890-4290-14	SW05	Solid	03/10/23 14:05	03/10/23 16:07	0-4'
890-4290-15	SW06	Solid	03/10/23 14:10	03/10/23 16:07	0-4'

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Josh Adams	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

jfalcomata@ensolum.com

Project Name:	AGSAU 2801 Maverick	Turn Around	
Project Number:	03E2057020	☐ Routine ☐ Rush	
Project Location:	32.801535,-103.459451	Due Date:	
Sampler's Name:	Julianna Falcomata	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TWN007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

ANALYSIS REQUEST

Pres. Code

Parameters: BTEX, TPH, CHLORIDES

890-4290 Chain of Custody

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
FS16	S	3/10/23	1100	4'	C	1	NAPP2216753703
FS17			1105	4'			
FS18			1110	4'			
FS19			1115	4'			
FS20			1120	4'			
FS21			1125	4'			
FS22			1130	4'			
FS23			1135	4'			
FS24			1340	4'			
FS25			1345	4'			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Julianna Falcomata	Cole Cup	3.10.23 1600	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 2

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Project Manager:	Josh Adams	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, kjennings@ensolum.com

falcomata@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	EVERSAU 2801/Maverick	Turn Around	☐ Routine ☐ Rush
Project Number:	BF2057020	Due Date:	
Project Location:	32.802535, -103.459451	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Julianna Falcomata		
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	TPH	CHLORIDES	Sample Comments
FS26	S	3/10/23	1350	4'	C	1					NAPP2216757103
SW03			1355	0-4'							
SW04			1400	0-4'							
SW05			1405	0-4'							
SW06	↓	↓	1410	0-4'	↓	↓					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4290-1
SDG Number: 03E2057020

Login Number: 4290
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4290-1
SDG Number: 03E2057020

Login Number: 4290
List Number: 2
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	Refer to job narrative
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4290-1
SDG Number: 03E2057020

Login Number: 4290
List Number: 3
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/14/23 11:33 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

EVG 2801/Maverick
SDG NUMBER 03E2057020

JOB NUMBER

890-4309-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

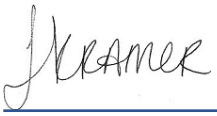
my EOL

Eurofins Carlsbad

Job Notes

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
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Client: Ensolum
Project/Site: EVG 2801/Maverick

Laboratory Job ID: 890-4309-1
SDG: 03E2057020

Table of Contents

Eurofins Carlsbad
3/27/2023

Definitions/Glossary

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Job ID: 890-4309-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4309-1

Receipt
The samples were received on 3/14/2023 4:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS27 (890-4309-1), FS28 (890-4309-2), FS29 (890-4309-3) and SW06 (890-4309-4).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: FS27 (890-4309-1), FS28 (890-4309-2), FS29 (890-4309-3), SW06 (890-4309-4), (CCV 880-49342/2), (CCV 880-49342/20), (LCS 880-49291/1-A), (LCSD 880-49291/2-A), (MB 880-49291/5-A), (890-4309-A-1-D MS) and (890-4309-A-1-E MSD). 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 880-48884 and analytical batch 880-48908 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48884/2-A) and (LCSD 880-48884/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-48884 and analytical batch 880-48908 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.

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

Client Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Client Sample ID: FS27

Date Collected: 03/13/23 12:00
Date Received: 03/14/23 16:17
Sample Depth: 1'

Lab Sample ID: 890-4309-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 20:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/23/23 08:54	03/23/23 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 20:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/23/23 08:54	03/23/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 20:00*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*03/23/23 08:54*	*03/23/23 20:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 13:18	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			03/22/23 17:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/23 09:50	03/19/23 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/18/23 09:50	03/19/23 12:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/23 09:50	03/19/23 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*03/18/23 09:50*	*03/19/23 12:56*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/18/23 09:50*	*03/19/23 12:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**830**		5.04		mg/Kg			03/20/23 16:40	1

Client Sample ID: FS28

Date Collected: 03/13/23 12:05
Date Received: 03/14/23 16:17
Sample Depth: 1'

Lab Sample ID: 890-4309-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/23/23 20:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/23/23 20:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/23/23 20:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/23/23 08:54	03/23/23 20:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/23 08:54	03/23/23 20:25	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/23/23 08:54	03/23/23 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 20:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Client Sample ID: FS28

Date Collected: 03/13/23 12:05
Date Received: 03/14/23 16:17
Sample Depth: 1'

Lab Sample ID: 890-4309-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/23/23 08:54*	*03/23/23 20:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/27/23 13:18	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			03/22/23 17:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/18/23 09:50	03/19/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		03/18/23 09:50	03/19/23 13:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/18/23 09:50	03/19/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*03/18/23 09:50*	*03/19/23 13:18*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/18/23 09:50*	*03/19/23 13:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.0**		4.98	mg/Kg			03/20/23 16:45	1

Client Sample ID: FS29

Date Collected: 03/13/23 12:15
Date Received: 03/14/23 16:17
Sample Depth: 1'

Lab Sample ID: 890-4309-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 20:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 20:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 20:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 20:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 20:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 20:51*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/23/23 08:54*	*03/23/23 20:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 13:18	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			03/22/23 17:16	1

Client Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Client Sample ID: FS29

Lab Sample ID: 890-4309-3
Matrix: Solid
Date Collected: 03/13/23 12:15
Date Received: 03/14/23 16:17
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/23 09:50	03/19/23 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		03/18/23 09:50	03/19/23 13:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/23 09:50	03/19/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/18/23 09:50*	*03/19/23 13:40*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/18/23 09:50*	*03/19/23 13:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**809**		4.95		mg/Kg			03/20/23 16:51	1

Client Sample ID: SW06

Lab Sample ID: 890-4309-4
Matrix: Solid
Date Collected: 03/13/23 12:30
Date Received: 03/14/23 16:17
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 21:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 21:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 21:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/23/23 08:54	03/23/23 21:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 21:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/23/23 08:54	03/23/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*176*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 21:17*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/23/23 08:54*	*03/23/23 21:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/27/23 13:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/22/23 17:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:50	03/19/23 14:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		03/18/23 09:50	03/19/23 14:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:50	03/19/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*03/18/23 09:50*	*03/19/23 14:02*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/18/23 09:50*	*03/19/23 14:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Client Sample ID: SW06
Date Collected: 03/13/23 12:30
Date Received: 03/14/23 16:17
Sample Depth: 0-4'

Lab Sample ID: 890-4309-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.6		4.97		mg/Kg			03/20/23 16:56	1

Surrogate Summary

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4309-1	FS27	161 S1+	75
890-4309-1 MS	FS27	171 S1+	87
890-4309-1 MSD	FS27	168 S1+	98
890-4309-2	FS28	163 S1+	78
890-4309-3	FS29	169 S1+	80
890-4309-4	SW06	176 S1+	80
LCS 880-49291/1-A	Lab Control Sample	154 S1+	69 S1-
LCSD 880-49291/2-A	Lab Control Sample Dup	161 S1+	91
MB 880-49291/5-A	Method Blank	100	76

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4308-A-41-B MS	Matrix Spike	97	101
890-4308-A-41-C MSD	Matrix Spike Duplicate	114	116
890-4309-1	FS27	90	103
890-4309-2	FS28	90	103
890-4309-3	FS29	92	106
890-4309-4	SW06	91	106
LCS 880-48884/2-A	Lab Control Sample	143 S1+	172 S1+
LCSD 880-48884/3-A	Lab Control Sample Dup	170 S1+	196 S1+
MB 880-48884/1-A	Method Blank	119	138 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49291/5-A
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49291

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 08:54	03/23/23 19:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/23/23 08:54*	*03/23/23 19:34*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/23/23 08:54*	*03/23/23 19:34*	*1*

Lab Sample ID: LCS 880-49291/1-A
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49291

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1140		mg/Kg		114	70 - 130		
Toluene			0.100	0.1015		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1191		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2517		mg/Kg		126	70 - 130		
o-Xylene			0.100	0.1206		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-49291/2-A
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49291

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1232		mg/Kg		123	70 - 130	8	35
Toluene			0.100	0.1003		mg/Kg		100	70 - 130	1	35
Ethylbenzene			0.100	0.1188		mg/Kg		119	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2526		mg/Kg		126	70 - 130	0	35
o-Xylene			0.100	0.1215		mg/Kg		121	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 890-4309-1 MS
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: FS27
Prep Type: Total/NA
Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08291		mg/Kg		83	70 - 130		
Toluene	<0.00200	U	0.100	0.07383		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

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

Lab Sample ID: 890-4309-1 MS
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: FS27
Prep Type: Total/NA
Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07977		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1666		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08092		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*171*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-4309-1 MSD
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: FS27
Prep Type: Total/NA
Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1086		mg/Kg		110	70 - 130	27	35
Toluene	<0.00200	U	0.0990	0.09435		mg/Kg		95	70 - 130	24	35
Ethylbenzene	<0.00200	U	0.0990	0.09886		mg/Kg		100	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2056		mg/Kg		104	70 - 130	21	35
o-Xylene	<0.00200	U	0.0990	0.09713		mg/Kg		98	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-48884/1-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48884

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/18/23 09:50	03/19/23 08:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/18/23 09:50	03/19/23 08:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/18/23 09:50	03/19/23 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/18/23 09:50*	*03/19/23 08:52*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*03/18/23 09:50*	*03/19/23 08:52*	*1*

Lab Sample ID: LCS 880-48884/2-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1075		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1126		mg/Kg		113	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

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

Lab Sample ID: LCS 880-48884/2-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48884

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	143	S1+	70 - 130
o-Terphenyl	172	S1+	70 - 130

Lab Sample ID: LCSD 880-48884/3-A
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48884

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1003		mg/Kg		100	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1352	*+	mg/Kg		135	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	170	S1+	70 - 130
o-Terphenyl	196	S1+	70 - 130

Lab Sample ID: 890-4308-A-41-B MS
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	897.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	950.3		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-4308-A-41-C MSD
Matrix: Solid
Analysis Batch: 48908

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48884

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1048		mg/Kg		103	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	1099		mg/Kg		108	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	116		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48890/1-A
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/20/23 14:19	1

Lab Sample ID: LCS 880-48890/2-A
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-48890/3-A
Matrix: Solid
Analysis Batch: 49133

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.6		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 890-4297-A-2-C MS
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	44.2		248	288.4		mg/Kg		99	90 - 110		

Lab Sample ID: 890-4297-A-2-D MSD
Matrix: Solid
Analysis Batch: 49133

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	44.2		248	282.7		mg/Kg		96	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

GC VOA

Prep Batch: 49291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Total/NA	Solid	5035	
890-4309-2	FS28	Total/NA	Solid	5035	
890-4309-3	FS29	Total/NA	Solid	5035	
890-4309-4	SW06	Total/NA	Solid	5035	
MB 880-49291/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4309-1 MS	FS27	Total/NA	Solid	5035	
890-4309-1 MSD	FS27	Total/NA	Solid	5035	

Analysis Batch: 49342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Total/NA	Solid	8021B	49291
890-4309-2	FS28	Total/NA	Solid	8021B	49291
890-4309-3	FS29	Total/NA	Solid	8021B	49291
890-4309-4	SW06	Total/NA	Solid	8021B	49291
MB 880-49291/5-A	Method Blank	Total/NA	Solid	8021B	49291
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	8021B	49291
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49291
890-4309-1 MS	FS27	Total/NA	Solid	8021B	49291
890-4309-1 MSD	FS27	Total/NA	Solid	8021B	49291

Analysis Batch: 49632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Total/NA	Solid	Total BTEX	
890-4309-2	FS28	Total/NA	Solid	Total BTEX	
890-4309-3	FS29	Total/NA	Solid	Total BTEX	
890-4309-4	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Total/NA	Solid	8015NM Prep	
890-4309-2	FS28	Total/NA	Solid	8015NM Prep	
890-4309-3	FS29	Total/NA	Solid	8015NM Prep	
890-4309-4	SW06	Total/NA	Solid	8015NM Prep	
MB 880-48884/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48884/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4308-A-41-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4308-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Total/NA	Solid	8015B NM	48884
890-4309-2	FS28	Total/NA	Solid	8015B NM	48884
890-4309-3	FS29	Total/NA	Solid	8015B NM	48884
890-4309-4	SW06	Total/NA	Solid	8015B NM	48884
MB 880-48884/1-A	Method Blank	Total/NA	Solid	8015B NM	48884
LCS 880-48884/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48884

QC Association Summary

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

GC Semi VOA (Continued)

Analysis Batch: 48908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-48884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48884
890-4308-A-41-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48884
890-4308-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48884

Analysis Batch: 49254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Total/NA	Solid	8015 NM	
890-4309-2	FS28	Total/NA	Solid	8015 NM	
890-4309-3	FS29	Total/NA	Solid	8015 NM	
890-4309-4	SW06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Soluble	Solid	DI Leach	
890-4309-2	FS28	Soluble	Solid	DI Leach	
890-4309-3	FS29	Soluble	Solid	DI Leach	
890-4309-4	SW06	Soluble	Solid	DI Leach	
MB 880-48890/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48890/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48890/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4297-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4297-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4309-1	FS27	Soluble	Solid	300.0	48890
890-4309-2	FS28	Soluble	Solid	300.0	48890
890-4309-3	FS29	Soluble	Solid	300.0	48890
890-4309-4	SW06	Soluble	Solid	300.0	48890
MB 880-48890/1-A	Method Blank	Soluble	Solid	300.0	48890
LCS 880-48890/2-A	Lab Control Sample	Soluble	Solid	300.0	48890
LCSD 880-48890/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48890
890-4297-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	48890
890-4297-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48890

Lab Chronicle

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Client Sample ID: FS27

Date Collected: 03/13/23 12:00
Date Received: 03/14/23 16:17

Lab Sample ID: 890-4309-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49254	03/22/23 17:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48884	03/18/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 12:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 16:40	SMC	EET MID

Client Sample ID: FS28

Date Collected: 03/13/23 12:05
Date Received: 03/14/23 16:17

Lab Sample ID: 890-4309-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49254	03/22/23 17:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48884	03/18/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 13:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 16:45	SMC	EET MID

Client Sample ID: FS29

Date Collected: 03/13/23 12:15
Date Received: 03/14/23 16:17

Lab Sample ID: 890-4309-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 20:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49254	03/22/23 17:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48884	03/18/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 13:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 16:51	SMC	EET MID

Client Sample ID: SW06

Date Collected: 03/13/23 12:30
Date Received: 03/14/23 16:17

Lab Sample ID: 890-4309-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 21:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Client Sample ID: SW06

Date Collected: 03/13/23 12:30
Date Received: 03/14/23 16:17

Lab Sample ID: 890-4309-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49254	03/22/23 17:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48884	03/18/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 16:56	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

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: EVG 2801/Maverick

Job ID: 890-4309-1
SDG: 03E2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4309-1	FS27	Solid	03/13/23 12:00	03/14/23 16:17	1'
890-4309-2	FS28	Solid	03/13/23 12:05	03/14/23 16:17	1'
890-4309-3	FS29	Solid	03/13/23 12:15	03/14/23 16:17	1'
890-4309-4	SW06	Solid	03/13/23 12:30	03/14/23 16:17	0-4'

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Josh Adams	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	3122 Nat'l Parks Highway	Address:	3122 Nat'l Parks Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-517-8437	Email:	jadams@ensolum.com, kjennings@ensolum.com, falcomata@outlook.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wildcat/Maverick	Turn Around	☑ Routine ☐ Rush
Project Number:	DBF2057070	Due Date:	
Project Location:	32.582585, -103.439451	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Julianna Falcomata		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.8
Total Containers:		Corrected Temperature:	1.6

ANALYSIS REQUEST

Preservative Codes

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

890-4309 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	CHLORIDES	Sample Comments
FS27	S	3/13/23	1200	1'	C	1					NAPP2216775703
FS28		3/13/23	1205	1'	C	1					
FS29		3/13/23	1215	1'	C	1					
SW06		3/14/23	1230	0-1'	C	1					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Amanda Sitz	3-14-23 16:17	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4309-1
SDG Number: 03E2057020

Login Number: 4309
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4309-1
SDG Number: 03E2057020

Login Number: 4309
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/16/23 10:28 AM

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

CARDINAL Laboratories

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

April 10, 2023

KALEI JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: EVG SAO 2801

Enclosed are the results of analyses for samples received by the laboratory on 04/06/23 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
KALEI JENNINGS
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	04/06/2023	Sampling Date:	04/06/2023
Reported:	04/10/2023	Sampling Type:	Soil
Project Name:	EVG SAO 2801	Sampling Condition:	Cool & Intact
Project Number:	03D2057020	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.802535,-103.459451		

Sample ID: FS 08 @ 4.25' (H231619-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2840**	16.0	04/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	**197**	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	**34.2**	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *88.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum, LLC
Project Manager:	Kalei Jennings
Address:	3122 Nat'l Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	817-683-2503 Fax #:
Project #:	03D2057020 Project Owner: Maverick
Project Name:	EVGSAD 25001
Project Location:	32.502535, -103.459451
Sampler Name:	Juliana Falcomata

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	TPH	Chlorides
H231619-1	FS05 @ 4.25	G	1			X							4/6/23	1250	X	X	X

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4/6/23	Received By:	
	Time: 13:40		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

falcomata@ensolum.com; kjennings@ensolum.com

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 6.1	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TD	Turnaround Time: Standard ☐ Rush ☒
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.5			Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

24hrs

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

ENSOLUM

APPENDIX C

Final C-141

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	NAPP2221675703
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID: 331199
Contact Name: Thomas Haigood	Contact Telephone: (432) 701-7802
Contact email: Thomas.haigood@mavresources.com	Incident # *(assigned by OCD)*
Contact mailing address: 5735 SW 7000, Andrews, TX 79714	

Location of Release Source

Latitude: 32.80302 Longitude: -103.45896
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Vacuum Grayburg – San Andreas Unit #010	Site Type: Flow line - Pasture
Date Release Discovered: June 06, 2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
SW-SE	28	17S	35E	Lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released: **2 bbl.**	Volume Recovered: **1 bbl.**
☒ Produced Water	Volume Released: **35 bbl.**	Volume Recovered: **19 bbl.**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

The 90 degree steel flow line riser developed a hole due to possible inner corrosion, This allowed approximately 37 bbl. of production fluid to spill onto the ground over the course of a couple hours ultimately covering an area of 60 ft. by 75 ft. in the pasture before being isolated.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **The calculated total volume released was over 25 bbl. total production fluid.**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc):
Contact was attempted by phone by calling (575) 626-0830 and I left a message. I then emailed OCD.Enviro@state.NM.us at 1:55pm (TX) on June 12th, 2022and made notification.

Initial Response

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

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

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

The release has been stopped and the total area of saturation has been barricaded. No more fluid will spread further. The ruptured line will be repaired and the saturated area will be remediated in accordance with NMOCD EMNRD guidelines

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

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

Printed Name: **Thomas Haigood**
Title: **Permian HSE Specialist**

Signature: *Thomas James Haigood*
Date: **June 06, 2022**

email: **Thomas.haigood@mavresources.com**
Telephone: **(432) 701-7802**

OCD Only

Received by: Jocelyn Harimon
Date: 08/05/2022

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

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

CONDITIONS

Action 131744

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 131744
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	8/5/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

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

Printed Name: Bryce Wagoner Title: Permian HSE Specialist

Signature: Date: 4/13/2023

email: bryce.wagoner@mavresources.com Telephone: (432) 701-7802

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

Printed Name: Bryce Wagoner Title: Permian HSE Specialist

Signature: Date: 4/13/2023

email: bryce.wagoner@mavresources.com Telephone: (432) 701-7802

OCD Only

Received by: Date:

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

Closure Approved by: Nelson Velez Date: 07/14/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

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

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

CONDITIONS

Action 209758

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 209758
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/14/2023