

December 14, 2022

New Mexico Oil Conservation Division

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

Re: Revised Remediation Work Plan

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 Natural Resources, LLC (Maverick), has prepared the following *Revised Remediation Work Plan* (RRWP) to document assessment and soil sampling activities completed to date and propsal to excavate the extent if impacted soil at the East Vacuum Grayburg – San Andreas Unit #010 (Site), resulting from a flow line release of crude oil and produced water into the surrounding pasture. The following RRWP proposes excavation of impacted soil in the top 4 feet located in the pasture.

SITE DESCRIPTION AND RELEASE SUMMARY

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

On June 6, 2022, a hole in a poly flowline resulted in the release of approximately 35 barrels (bbls) of produced water and 2 bbls of crude oil into the pasture where fluids pooled. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 19 bbls of produced water and 1 bbl of crude oil were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 6, 2022. The release was assigned Incident Number NAPP2221675703.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Based on the results of the Site Characterization presented in the September 2, 2022 Remediation Work Plan (RWP), which was approved by NMOCD, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants

601 North Marienfeld Street, Suite 400 | Midland, TX 79701 | ensolum.com

Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



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

TPH: 2,500 mg/kg

Chloride: 10,000 mg/kg

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 2, 2022, personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five preliminary soil samples (SS01 through SS05) were collected within the release extent at a depth of approximately 0.5 feet bgs. The preliminary soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix A.

The preliminary 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 at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil sample SS01 indicated TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS02 through SS05 indicated all COCs concentrations were compliant with the Site Closure Criteria; however, laboratory analytical results for SS01 through SS05 did indicate TPH and chloride concentrations exceeded the reclamation requirements. The laboratory analytical reports are included in Appendix B.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appeared to be warranted to define the vertical and lateral extents of impacts to soil following the June 2022 release.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between October 24 and 25, 2022, delineation activities were conducted at the Site to assess the vertical and lateral extent of impacted soil. Potholes PH01 through PH09 were advanced via backhoe within and around the release extent. The delineation potholes were advanced to a depth of 8 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 8 feet bgs based on highest field screening results and the terminus of each pothole. Soil from the potholes was field screened for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic/ soil sampling logs, which are included in Appendix C. The delineation soil samples



were handled and analyzed as described above. The delineation soil samples locations are depicted on Figure 3.

Laboratory analytical results for delineation soil samples PH01 through PH05, collected from within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria and/or the reclamation requirement at a maximum depth of 4 feet bgs. Laboratory analytical results for delineation soil samples collected from potholes PH06 through PH09, at depths ranging from 1-foot to 8 feet bgs, indicated all COC concentrations were compliant with the most stringest Table I Closure Criteria and successfully defined the lateral extent of the release. Table 1 summarizes soil analytical results. The laboratory analytical reports are included in Appendix B.

PROPOSED REMEDIATION WORK PLAN

Impacted soil has been detected in the top 4 feet of soil off pad as indicated by preliminary surface samples SS01 through SS05 and in the vicinity of potholes PH01 through PH05 at depths ranging from 1-foot to 2 feet bgs. As a result, Maverick proposes excavation of impacted soil in the top 4 feet.

Maverick requests approval to complete the following remediation activities:

- Excavation of TPH and/or chloride impacted and waste-containing soil in the top 4 feet of the
 pasture. Excavation will proceed laterally until sidewall samples indicated TPH and chloride
 concentrations are compliant with the reclamation requirements. Confirmation samples will be
 collected from the sidewalls of the final excavation extent.
- Due to the estimated 9,200 square foot size of the excavation, Maverick requests a variance for frequency of excavation confirmation samples. Maverick proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 46 samples) to every 400 square feet (approximately 23 samples). Each 5-point composite floor sample will represent a 400 square foot area. Sidewall samples will be collected at a frequency of every 400 square feet. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation confirmation samples will be analyzed for BTEX, TPH, and chloride.
- An estimated 950 cubic yards of impacted/waste-containing soil will be excavated and disposed
 of at a licensed disposal facility.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved Bureau of Land Management (BLM) seed mixture.

Maverick will complete the excavation activities within 90 days of the date of approval of this RRWP by the NMOCD. A report detailing remedial action will be submitted within 30 days of receipt of laboratory analytical results. Maverick believes the scope of work described above will meet requirements set forth in 19.15.29.12 and 13 NMAC and are protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this RRWP from NMOCD.



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 Moir, PG Senior Managing Geologist

cc: Bryce Wagoner, Maverick Natural Resources, LLC

New Mexico State Land Office

Appendices:

Figure 1 Site Location Map

Lei Jennings

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

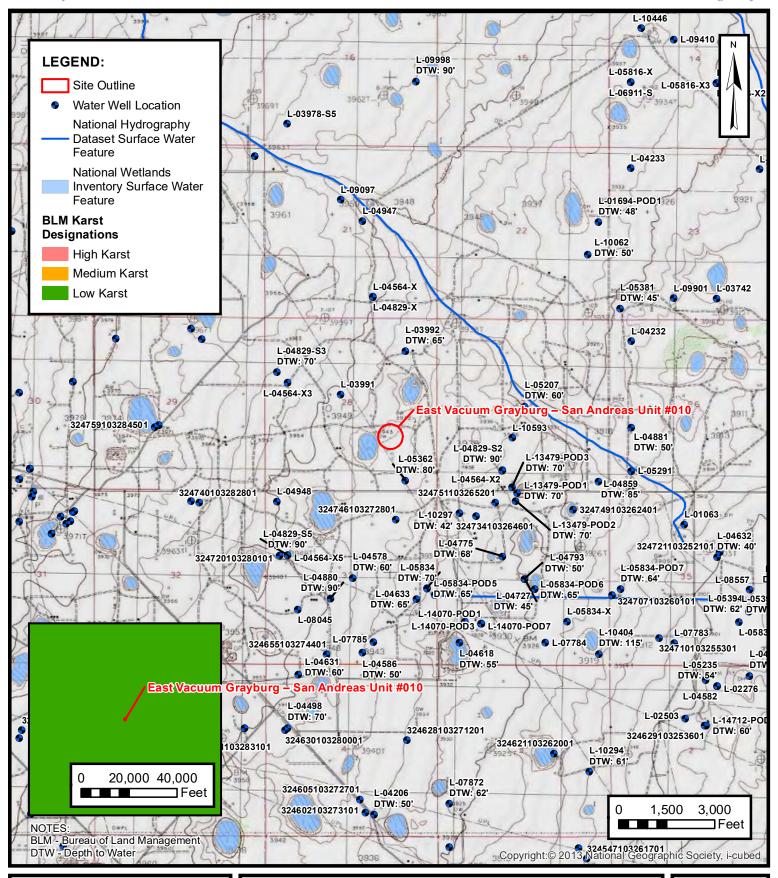
Appendix A Photographic Log

Appendix B Laboratory Analytical Results
Appendix C Lithologic / Sampling Logs
Appendix D NMOCD Notifications

Appendix E Final C-141



FIGURES



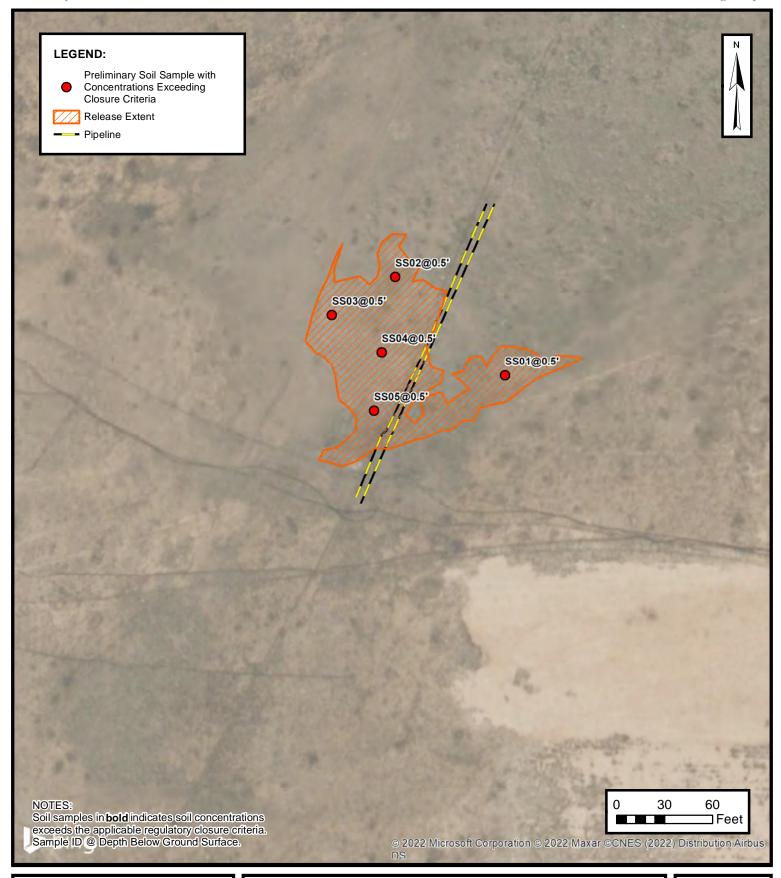


SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
EAST VACUUM GRAYBURG – SAN ANDREAS UNIT #010
NAPP2221675703

Jnit E
Lea County, New Mexico

FIGURE

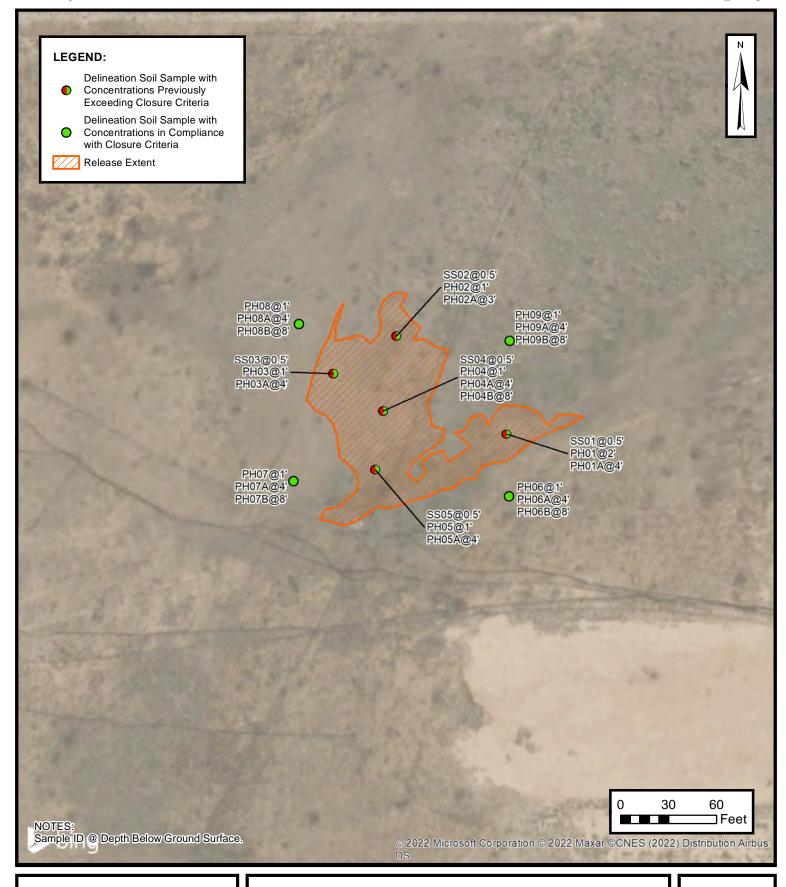




PRELIMINARY SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC EAST VACUUM GRAYBURG - SAN ANDREAS UNIT #010 NAPP2221675703

Unit , Sec 28, T17S, R35E Lea County, New Mexico **FIGURE**





DELINEATION SOIL SAMPLE LOCATIONS

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

FIGURE



TABLES



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

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
		, ,,				, 5 6/	, 5 5,		, 5 0,	, 5 0,
NMOCD Table 1 C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Preliminar	y Assessment S	oil Samples				
SS01	08/02/2022	0.5	<0.00199	<0.00398	<50.0	3,590	405	3,590	4,000	10,600*
SS02	08/02/2022	0.5	<0.00198	<0.00397	<49.9	608	81.6	608	690	9,440*
SS03	08/02/2022	0.5	<0.00202	<0.00403	<49.9	92.0	<49.9	92.0	92.0	7,310*
SS04	08/02/2022	0.5	<0.00200	<0.00401	<50.0	237	<50.0	237	237	8,390*
SS05	08/02/2022	0.5	<0.00200	<0.00400	<50.0	179	<50.0	179	179	7,850*
				Deli	ineation Soil Sar	nples				
PH01	10/24/2022	2	<0.00198	< 0.00396	<50.0	327	<50.0	327	327	4,030*
PH01A	10/24/2022	4	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	66.6
PH02	10/24/2022	1	<0.00200	<0.00400	<50.0	236	<50.0	236	236	6,240*
PH02A	10/24/2022	3	<0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	196
PH03	10/24/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	10,400*
PH03A	10/24/2022	4	< 0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	2,350
PH04	10/24/2022	1	<0.00202	<0.00403	<49.8	861	138	861	999	10,600*
PH04A	10/24/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,480
PH04B	10/25/2022	8	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	75.3
PH05	10/24/2022	1	<0.00201	<0.00402	<49.8	80.1	<49.8	80.1	80.1	2,820*
PH05A	10/24/2022	4	< 0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	55.6
PH06	10/25/2022	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	29.0*
PH06A	10/25/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	23.8
PH06B	10/25/2022	8	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	18.0
PH07	10/25/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	36.4
PH07A	10/25/2022	4	< 0.00200	<0.0399	<49.9	<49.9	<49.9	<49.9	<49.9	15.3
PH07B	10/25/2022	8	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	38.7
PH08	10/25/2022	1	<0.00199	<0.00398	<49.9	56.0	<49.9	56.0	56.0	73.0*
PH08A	10/25/2022	4	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	20.8
PH08B	10/25/2022	8	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	20.2
PH09	10/25/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	35.5*
PH09A	10/25/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	415
PH09B	10/25/2022	8	< 0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	192

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Ensolum

Released to Imaging: 1/11/2023 1:59:45 PM

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



APPENDIX

Photographic Log

ENSOLUM

Photographic Log

Maverick Natural Resources, LLC
East Vacuum Grayburg - San Andres Unit #010
Incident Number NAPP2221675703





Photograph 1 Date: August 2, 2022 Photograph 2
Description: Photo of initial release extent, facing northeast. Description: Photograph 2

Photograph 2 Date: August 2, 2022 Description: Photo of initial release extent, facing northeast.





Photograph 3 Date: August 2 Description: Photo of initial release extent, facing southeast.

Date: August 2, 2022 Photograph 4 Date: August 2, 2022 extent, facing Description: Photo of initial release extent, facing southwest.

ENSOLUM

Photographic Log

Maverick Natural Resources, LLC
East Vacuum Grayburg - San Andres Unit #010
Incident Number NAPP2221675703



Photograph 5 Date: Oct. 25, 2022 Description: Photo of pothole PH07, facing southwest.



Photograph 6 Date: Oct. 25, 2022 Description: Photo of pothole PH08, facing east.



Photograph 7 Date: Oct. 25, 2022 Description: Photo of release extent, post delineation, facing west.



Photograph 8 Date: Oct. 25, 2022
Description: Photo of release extent, post delineation, facing northeast.



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3289-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/1/2022 1:10:05 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through EOL **Have a Question?**

.....LINKS

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/11/2023 1:59:45 PM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3289-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3289-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

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

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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)

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

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3289-1

SDG: 03D2057020

Job ID: 890-3289-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3289-1

Receipt

The samples were received on 10/25/2022 3:17 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3289-1) and PH01 (890-3289-2).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (890-3287-A-1-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

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.

Matrix: Solid

Lab Sample ID: 890-3289-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3289-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH01

Date Collected: 10/24/22 10:30 Date Received: 10/25/22 15:17

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/30/22 16:11	10/31/22 19:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/30/22 16:11	10/31/22 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			10/30/22 16:11	10/31/22 19:27	1
4-Bromofluorobenzene (Surr)	92		70 - 130			10/28/22 13:58	11/01/22 05:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/30/22 16:11	10/31/22 19:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/28/22 13:58	11/01/22 05:19	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/01/22 09:40	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	327		50.0	mg/Kg			10/31/22 13:36	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 02:16	1
Diesel Range Organics (Over C10-C28)	327		50.0	mg/Kg		10/27/22 13:56	10/30/22 02:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/27/22 13:56	10/30/22 02:16	1
o-Terphenyl	111		70 - 130			10/27/22 13:56	10/30/22 02:16	1

Method: MCAWW 300.0 - Anions, le	on Chromatography - So	luble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030	25.1	mg/Kg			10/30/22 08:54	5

Client Sample ID: PH01

Date Collected: 10/24/22 10:40 Date Received: 10/25/22 15:17

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 19:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 19:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 19:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/30/22 16:11	10/31/22 19:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 19:47	1
Xylenes, Total	< 0.00403	U	0.00403	mg/Kg		10/30/22 16:11	10/31/22 19:47	1

Eurofins Carlsbad

Lab Sample ID: 890-3289-2

2

3

0

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10

12

13

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3289-2

10/30/22 09:00

Client Sample Results

Client: Ensolum Job ID: 890-3289-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH01

Date Collected: 10/24/22 10:40 Date Received: 10/25/22 15:17

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130			10/30/22 16:11	10/31/22 19:47	
4-Bromofluorobenzene (Surr)	97		70 - 130			10/28/22 13:58	11/01/22 05:40	
1,4-Difluorobenzene (Surr)	100		70 - 130			10/30/22 16:11	10/31/22 19:47	
1,4-Difluorobenzene (Surr)	98		70 - 130			10/28/22 13:58	11/01/22 05:40	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/01/22 09:40	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			10/31/22 13:36	1
				mg/Kg			10/31/22 13:36	•
Total TPH : Method: SW846 8015B NM - Dies Analyte	sel Range Orga			mg/Kg Unit	D	Prepared	10/31/22 13:36 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 10/27/22 13:56		Dil Fac
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result <50.0	nics (DRO) Qualifier	(GC) RL 50.0	Unit	<u>D</u>	10/27/22 13:56	Analyzed 10/30/22 02:37	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	unit mg/Kg mg/Kg	<u>D</u>	10/27/22 13:56 10/27/22 13:56	Analyzed 10/30/22 02:37 10/30/22 02:37	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	10/27/22 13:56	Analyzed 10/30/22 02:37	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	unit mg/Kg mg/Kg	<u> </u>	10/27/22 13:56 10/27/22 13:56	Analyzed 10/30/22 02:37 10/30/22 02:37	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	nics (DRO) Qualifier U	(GC) RL 50.0 50.0 50.0	unit mg/Kg mg/Kg	<u>D</u>	10/27/22 13:56 10/27/22 13:56 10/27/22 13:56	Analyzed 10/30/22 02:37 10/30/22 02:37 10/30/22 02:37	

4.95

mg/Kg

66.6

Surrogate Summary

Client: Ensolum Job ID: 890-3289-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20914-A-2-C MS	Matrix Spike	84	100	
880-20914-A-2-D MSD	Matrix Spike Duplicate	85	99	
890-3287-A-1-C MS	Matrix Spike	89	102	
890-3287-A-1-D MSD	Matrix Spike Duplicate	108	101	
890-3289-1	PH01	105	98	
890-3289-1	PH01	92	95	
890-3289-2	PH01	96	100	
890-3289-2	PH01	97	98	
LCS 880-38105/1-A	Lab Control Sample	94	97	
LCS 880-38186/1-A	Lab Control Sample	79	92	
LCSD 880-38105/2-A	Lab Control Sample Dup	94	97	
LCSD 880-38186/2-A	Lab Control Sample Dup	78	91	
MB 880-38105/5-A	Method Blank	114	101	
MB 880-38186/5-A	Method Blank	110	105	
•				
Surrogate Legend BFB = 4-Bromofluorober				

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)	
890-3285-A-1-C MS	Matrix Spike	76	81	
890-3285-A-1-D MSD	Matrix Spike Duplicate	88	89	
890-3289-1	PH01	101	111	
890-3289-2	PH01	87	101	
LCS 880-38023/2-A	Lab Control Sample	105	124	
LCSD 880-38023/3-A	Lab Control Sample Dup	103	120	
MB 880-38023/1-A	Method Blank	79	91	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3289-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38105/5-A

Matrix: Solid Analysis Batch: 38212 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38105

	МВ	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	•
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/28/22 13	3:58 10/31/22 23:57	
1,4-Difluorobenzene (Surr)	101		70 - 130	10/28/22 13	3:58 10/31/22 23:57	1

Lab Sample ID: LCS 880-38105/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA

Prep Batch: 38105

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09677		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1987		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-38105/2-A

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA

Prep Batch: 38105

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09314		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	4	35
Ethylbenzene	0.100	0.08607		mg/Kg		86	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1738		mg/Kg		87	70 - 130	13	35
o-Xylene	0.100	0.09058		mg/Kg		91	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3287-A-1-C MS

Matrix: Solid

Analysis Batch: 38212

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

Prep Batch: 38105

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.09465		mg/Kg		95	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.09684		mg/Kg		97	70 - 130	

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Prep Batch: 38105

Prep Type: Total/NA

NC

Client Sample ID: Matrix Spike Duplicate

70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-3289-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

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

Lab Sample ID: 890-3287-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 38212

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.0996	0.08320		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1658		mg/Kg		83	70 - 130	
o-Xylene	<0.00201	U F1	0.0996	0.08570		mg/Kg		86	70 - 130	

MS MS

Surrogate	%Recovery Qι	ıalifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3287-A-1-D MSD

Matrix: Solid

Analysis Batch: 38212									Prep	Batch:	38105
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	<0.00398	U F1	mg/Kg		0	70 - 130	NC	35

<0.00199 UF1

mg/Kg

0.0994

MSD MSD

<0.00201 UF1

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

Lab Sample ID: MB 880-38186/5-A

Matrix: Solid

o-Xylene

Analysis Batch: 38212

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Prep Batch: 38186	

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/30/22 16:11	10/31/22 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/30/22 16:11	10/31/22 12:23	1

Lab Sample ID: LCS 880-38186/1-A

Matrix: Solid

Analysis Batch: 38212

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

Prep Batch: 38186

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09449		mg/Kg		94	70 - 130	
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09290		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-3289-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: LCS 880-38186/1-A **Matrix: Solid**

Analysis Batch: 38212

Prep Type: Total/NA Prep Batch: 38186 LCS LCS %Rec

Spike Analyte Added Result Qualifier Unit %Rec Limits D o-Xylene 0.100 0.09541 95 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 79 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 92

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Lab Sample ID: LCSD 880-38186/2-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 38186

Analysis Batch: 38212

Spike LCSD LCSD RPD RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit Benzene 0.100 0.08977 mg/Kg 90 70 - 130 5 35 Toluene 0.100 0.09741 mg/Kg 97 70 - 130 6 35 Ethylbenzene 0.100 0.08724 mg/Kg 87 70 - 130 6 35 35 m-Xylene & p-Xylene 0.200 0.1757 mg/Kg 88 70 - 130 0.100 0.09083 91 70 - 130 o-Xylene mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 78 70 - 130 1,4-Difluorobenzene (Surr) 91 70 - 130

Lab Sample ID: 880-20914-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 38212

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09329		mg/Kg		93	70 - 130	
Toluene	<0.00199	U	0.101	0.09323		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.08300		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1664		mg/Kg		82	70 - 130	
o-Xylene	<0.00199	U	0.101	0.08979		mg/Kg		89	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 84 70 - 130 1,4-Difluorobenzene (Surr) 100

Lab Sample ID: 880-20914-A-2-D MSD

Matrix: Solid

Analysis Batch: 38212									Prep	Batch:	38186
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0994	0.08222		mg/Kg		83	70 - 130	13	35
Toluene	< 0.00199	U	0.0994	0.08174		mg/Kg		82	70 - 130	13	35
Ethylbenzene	< 0.00199	U	0.0994	0.07245		mg/Kg		73	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1450		mg/Kg		72	70 - 130	14	35
o-Xylene	<0.00199	U	0.0994	0.07980		mg/Kg		80	70 - 130	12	35

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Prep Type: Total/NA

Released to Imaging: 1/11/2023 1:59:45 PM

Prep Type: Total/NA

Prep Batch: 38186

Client Sample ID: Matrix Spike Duplicate

Job ID: 890-3289-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

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

Lab Sample ID: 880-20914-A-2-D MSD **Matrix: Solid**

Analysis Batch: 38212

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38186

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 85 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

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

Lab Sample ID: MB 880-38023/1-A

Matrix: Solid Analysis Batch: 38137

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38023

мв мв Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 10/27/22 13:56 10/29/22 21:37 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 10/27/22 13:56 10/29/22 21:37 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 10/27/22 13:56 10/29/22 21:37

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/27/22 13:56	10/29/22 21:37	1
o-Terphenyl	91		70 - 130	10/27/22 13:56	10/29/22 21:37	1

Lab Sample ID: LCS 880-38023/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 38137

Prep Type: Total/NA Prep Batch: 38023

LCS LCS Spike %Rec Result Qualifier Analyte Added Unit D %Rec Limits Gasoline Range Organics 1000 847.8 mg/Kg 85 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 748.0 mg/Kg 75 70 - 130 C10-C28)

	LU3 LU3	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	105	70 - 130
o-Terphenyl	124	70 - 130

Lab Sample ID: LCSD 880-38023/3-A

100 100

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 38023

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 784.5 78 70 - 130 8 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 738.0 74 70 - 130 20 mg/Kg C10-C28)

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	120	70 - 130

Job ID: 890-3289-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3285-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38137 Prep Batch: 38023 Comple Comple Chiles

	Sample	Sample	Spike	IVIO	IVIO				70Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	927.7		mg/Kg		90	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	80.1		998	808.7		mg/Kg		73	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 76 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-3285-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38137

_	Samnle	Sample	Spike	MSD	MSD				%Rec		RPD
	•	•	•				_	a. =			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	998	824.7		mg/Kg		80	70 - 130	12	20
(GRO)-C6-C10											
Diesel Range Organics (Over	80.1		998	921.4		mg/Kg		84	70 - 130	13	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 88 70 - 130 o-Terphenyl 89 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38007/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38166

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/30/22 08:00	1

Lab Sample ID: LCS 880-38007/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38166

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	263.5		ma/Ka		105	90 - 110	

Lab Sample ID: LCSD 880-38007/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38166

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier l	Unit D	%Rec	Limits	RPD	Limit
Chloride	250	264.0	r	mg/Kg	106	90 - 110	0	20

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Prep Batch: 38023

QC Sample Results

Client: Ensolum Job ID: 890-3289-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

Method: 300.0 - Anions, Ion Chromatography (Continued)

10600

Lab Sample ID: 890-3286-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 38166

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 5030

Lab Sample ID: 890-3286-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

15700

mg/Kg

101

90 - 110

Analysis Batch: 38166

Chloride

Spike Sample Sample MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 10600 5030 15700 mg/Kg 101 90 - 110 0 20

QC Association Summary

 Client: Ensolum
 Job ID: 890-3289-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

GC VOA

Prep Batch: 38105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	5035	_
890-3289-2	PH01	Total/NA	Solid	5035	
MB 880-38105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	5035	
890-3289-2	PH01	Total/NA	Solid	5035	
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	8021B	38186
890-3289-1	PH01	Total/NA	Solid	8021B	38105
890-3289-2	PH01	Total/NA	Solid	8021B	38186
890-3289-2	PH01	Total/NA	Solid	8021B	38105
MB 880-38105/5-A	Method Blank	Total/NA	Solid	8021B	38105
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	8021B	38105
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	8021B	38186
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38105
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38186
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	38186
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38186
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	38105
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38105

Analysis Batch: 38353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	Total BTEX	
890-3289-2	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	8015NM Prep	
890-3289-2	PH01	Total/NA	Solid	8015NM Prep	
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-3289-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

GC Semi VOA

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	8015B NM	38023
890-3289-2	PH01	Total/NA	Solid	8015B NM	38023
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015B NM	38023
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38023
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38023
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38023
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38023

Analysis Batch: 38289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Total/NA	Solid	8015 NM	
890-3289-2	PH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Soluble	Solid	DI Leach	
890-3289-2	PH01	Soluble	Solid	DI Leach	
MB 880-38007/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38007/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38007/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3286-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3286-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3289-1	PH01	Soluble	Solid	300.0	38007
890-3289-2	PH01	Soluble	Solid	300.0	38007
MB 880-38007/1-A	Method Blank	Soluble	Solid	300.0	38007
LCS 880-38007/2-A	Lab Control Sample	Soluble	Solid	300.0	38007
LCSD 880-38007/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38007
890-3286-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38007
890-3286-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38007

Client: Ensolum Job ID: 890-3289-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH01 Lab Sample ID: 890-3289-1

Date Collected: 10/24/22 10:30 Matrix: Solid Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 19:27	MNR	EET MID
Total/NA	Prep	5035			5.05 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 05:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38353	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38289	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 02:16	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	38007	10/27/22 11:23	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38166	10/30/22 08:54	CH	EET MID

Client Sample ID: PH01 Lab Sample ID: 890-3289-2

Date Collected: 10/24/22 10:40 Matrix: Solid Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 19:47	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38353	11/01/22 09:40	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			38289	10/31/22 13:36	AJ	EET MIC
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 02:37	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38007	10/27/22 11:23	СН	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	38166	10/30/22 09:00	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3289-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

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	NE	ELAP	T104704400-22-24	06-30-23
,	are included in this report, bu	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: Ensolum

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: EVGSAU 2801

Job ID: 890-3289-1

EET MID

SDG: 03D2057020

Protocol	Laboratory	
SW846	EET MID	
TAL SOP	EET MID	
SW846	EET MID	5
SW846	EET MID	3
MCAWW	EET MID	
SW846	EET MID	
SW846	EET MID	

ASTM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3289-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-3289-1	PH01	Solid	10/24/22 10:30	10/25/22 15:17	2
890-3289-2	PH01	Solid	10/24/22 10:40	10/25/22 15:17	4

Relinquished by: (Signature)

Received by (Signature)

68.26.01

九 公

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev. 2020 2

eurofins **Environment Testing**

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

	Xenco	Xenco EL P	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	e 2 of 2
Project Manager: Ka	Kalei Jennings	Bill to: (if different)	t) Kalei Jennings	Con	nts
	Ensolum, LLC	Company Name:		Program: UST/PST PRP Brownfields RRC	RRC Superfund
	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400	State of Project:]
e ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701	Reporting: Level II	TRRP Level IV
	817.683.2503	Email: kjennings@ensolum.com	solum.com	Deliverables: EDD ADaPT	Other:
Project Name:	EVGSAU 2801	Turn Around	ANALYSIS	S REQUEST Pro	Preservative Codes
Project Number:	03D2057020	☑ Routine ☐ Rush	Pres.	None: NO	O DI Water: H ₂ O
Project Location:		Due Date:		Cool: Cool	<u> </u>
Sampler's Name:	Conner Shore	TAT starts the day received by		HCL: HC	
PO#:)	the lab, if received by 4:30pm	ers	H ₂ S0 ₄ : H ₂	1 ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: (es) No	Wet ice: Yes No	mete().0)	H ₃ PO ₄ : HP	₩ ₩
Samples Received Intact:	Yes No	2		Na.S.O.	Na.S.O.: NaSO.
Sample Custody Seals:	Yes No NA Temperature Reading:	ding:		Zn Aceta	H: Zn
Total Containers:		emperature: . 4	8021	_	NaOH+Ascorbic Acid: SAPC
Sample Identification	ication Matrix Sampled	Time Depth Comp	CHLOR TPH (8 BTEX (Sa	Sample Comments
PH01	S 10.24.22	1030 2' G			
PH01	S 10.24.235	1040 4' G			Incident Number
				z	NAPP2221675703
	188				
	6.0				
	1				
D					
				,	
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 TCLP / SPLP 6010: 8RC	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe RA Sb As Ba Be Cd Cr Co Cu Pb Mn	wo Ni Se Ag TI U Hg: 1631/245.1/7470.	Sn U V Zn 7470 / 7471
Notice: Signature of this doc	ument and relinquishment of samples cons	titutes a valid purchase order from	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontra	tractors. It assigns standard terms and conditions	
of Service. Eurofins Xenco of Eurofins Xenco. A minimu	will be liable only for the cost of samples an um charge of \$85.00 will be applied to each	d shall not assume any responsib project and a charge of \$5 for eac	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses of expenses incurred by the client it such losses are due to circumstances beyond in expense of service. Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	terms will be enforced unless previously negotiated.	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3289-1 SDG Number: 03D2057020

Login Number: 3289 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3289-1

SDG Number: 03D2057020

List Source: Eurofins Midland
List Number: 2
List Creation: 10/27/22 10:25 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3288-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/1/2022 1:09:48 PM

Jessica Kramer, Project Manager

Jessica.Kramer@et.eurofinsus.com

(432)704-5440

.....LINKS **Review your project** results through EOL **Have a Question?**

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/11/2023 1:59:45 PM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3288-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3288-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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)

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

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3288-1

SDG: 03D2057020

Job ID: 890-3288-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3288-1

Receipt

The samples were received on 10/25/2022 3:17 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH02 (890-3288-1) and PH02 (890-3288-2).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (890-3287-A-1-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

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.

Matrix: Solid

Lab Sample ID: 890-3288-1

Job ID: 890-3288-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH02

Date Collected: 10/24/22 13:00 Date Received: 10/25/22 15:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 18:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 18:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 18:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 18:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 18:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/30/22 16:11	10/31/22 18:46	1
4-Bromofluorobenzene (Surr)	95		70 - 130			10/28/22 13:58	11/01/22 01:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/30/22 16:11	10/31/22 18:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/28/22 13:58	11/01/22 01:07	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/01/22 09:40	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	236		50.0	mg/Kg			10/31/22 13:36	1
Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 01:33	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 01:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	236		50.0	mg/Kg		10/27/22 13:56	10/30/22 01:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 01:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/27/22 13:56	10/30/22 01:33	1
o-Terphenyl	104		70 - 130			10/27/22 13:56	10/30/22 01:33	1

Method: MCAWW 300.0 - Anions, Id	on Chromatography - Sol	uble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6240	49.5	mg/Kg			10/30/22 15:38	10

Client Sample ID: PH02

Date Collected: 10/24/22 13:10 Date Received: 10/25/22 15:17

Sample Depth: 3

Method: SW846 8021B - Vol	atile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/30/22 16:11	10/31/22 19:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/30/22 16:11	10/31/22 19:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/30/22 16:11	10/31/22 19:07	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-3288-2

Matrix: Solid

Lab Sample ID: 890-3288-2

10/30/22 15:44

Client Sample Results

Client: Ensolum Job ID: 890-3288-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH02

Date Collected: 10/24/22 13:10 Date Received: 10/25/22 15:17

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130			10/30/22 16:11	10/31/22 19:07	
4-Bromofluorobenzene (Surr)	96		70 - 130			10/28/22 13:58	11/01/22 01:27	
1,4-Difluorobenzene (Surr)	93		70 - 130			10/30/22 16:11	10/31/22 19:07	
1,4-Difluorobenzene (Surr)	93		70 - 130			10/28/22 13:58	11/01/22 01:27	
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/01/22 09:40	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			10/31/22 13:36	
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
5 5	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 01:54	
(GRO)-C6-C10	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		10/27/22 13:56 10/27/22 13:56	10/30/22 01:54 10/30/22 01:54	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 01:54	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U						
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 01:54	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 <50.0	U	50.0	mg/Kg		10/27/22 13:56 10/27/22 13:56	10/30/22 01:54 10/30/22 01:54	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 %Recovery	U	50.0 50.0 <i>Limits</i>	mg/Kg		10/27/22 13:56 10/27/22 13:56 Prepared	10/30/22 01:54 10/30/22 01:54 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 %Recovery 92 104	U U Qualifier	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg		10/27/22 13:56 10/27/22 13:56 Prepared 10/27/22 13:56	10/30/22 01:54 10/30/22 01:54 Analyzed 10/30/22 01:54	Dil Fa

4.98

mg/Kg

196

Surrogate Summary

Client: Ensolum Job ID: 890-3288-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20914-A-2-C MS	Matrix Spike	84	100	
880-20914-A-2-D MSD	Matrix Spike Duplicate	85	99	
890-3287-A-1-C MS	Matrix Spike	89	102	
890-3287-A-1-D MSD	Matrix Spike Duplicate	108	101	
890-3288-1	PH02	92	99	
890-3288-1	PH02	95	96	
890-3288-2	PH02	108	93	
890-3288-2	PH02	96	93	
LCS 880-38105/1-A	Lab Control Sample	94	97	
LCS 880-38186/1-A	Lab Control Sample	79	92	
LCSD 880-38105/2-A	Lab Control Sample Dup	94	97	
LCSD 880-38186/2-A	Lab Control Sample Dup	78	91	
MB 880-38105/5-A	Method Blank	114	101	
MB 880-38186/5-A	Method Blank	110	105	
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)	
890-3285-A-1-C MS	Matrix Spike	76	81	
890-3285-A-1-D MSD	Matrix Spike Duplicate	88	89	
890-3288-1	PH02	92	104	
890-3288-2	PH02	92	104	
LCS 880-38023/2-A	Lab Control Sample	105	124	
LCSD 880-38023/3-A	Lab Control Sample Dup	103	120	
MB 880-38023/1-A	Method Blank	79	91	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3288-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38105/5-A

Matrix: Solid Analysis Batch: 38212 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38105

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/28/22 13:58	10/31/22 23:57	1
1.4-Difluorobenzene (Surr)	101		70 - 130	10/28/22 13:58	10/31/22 23:57	1

Lab Sample ID: LCS 880-38105/1-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38105

		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
	Toluene	0.100	0.1041		mg/Kg		104	70 - 130	
	Ethylbenzene	0.100	0.09677		mg/Kg		97	70 - 130	
İ	m-Xylene & p-Xylene	0.200	0.1987		mg/Kg		99	70 - 130	
	o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	
1									

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-38105/2-A

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA

Prep Batch: 38105

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09314		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	4	35
Ethylbenzene	0.100	0.08607		mg/Kg		86	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1738		mg/Kg		87	70 - 130	13	35
o-Xylene	0.100	0.09058		mg/Kg		91	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3287-A-1-C MS

Matrix: Solid

Analysis Batch: 38212

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

Prep Batch: 38105

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.09465		mg/Kg		95	70 - 130	
Toluene	< 0.00201	U F1	0.0996	0.09684		mg/Kg		97	70 - 130	

Client: Ensolum Job ID: 890-3288-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3287-A-1-C MS

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38105

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U F1 0.0996 0.08320 84 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 UF1 0.199 0.1658 mg/Kg 83 70 - 130 0.0996 o-Xylene <0.00201 UF1 0.08570 mg/Kg 86 70 - 130

MS MS

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

Lab Sample ID: 890-3287-A-1-D MSD

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38105

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.0994 Benzene <0.00201 UF1 <0.00199 UF1 mg/Kg 0 70 - 130 NC 35 Toluene 0.0994 70 - 130 <0.00201 UF1 <0.00199 UF1 mg/Kg 0 NC 35 NC Ethylbenzene <0.00201 UF1 0.0994 <0.00199 UF1 mg/Kg 0 70 - 130 35 0.199 <0.00398 UF1 0 70 - 130 NC 35 m-Xylene & p-Xylene <0.00402 U F1 mg/Kg 0.0994 NC <0.00201 UF1 <0.00199 U F1 0 70 - 130 o-Xylene mg/Kg

MSD MSD

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

Lab Sample ID: MB 880-38186/5-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38186

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/30/22 1	6:11	10/31/22 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/30/22 1	6:11	10/31/22 12:23	1

Lab Sample ID: LCS 880-38186/1-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38186

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09449		mg/Kg		94	70 - 130	
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09290		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130	

Client: Ensolum Job ID: 890-3288-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

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

Lab Sample ID: LCS 880-38186/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 38186 Analysis Batch: 38212

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.09541		mg/Kg	_	95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-38186/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 38212 Prep Batch: 38186

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.08977		mg/Kg		90	70 - 130	5	35
0.100	0.09741		mg/Kg		97	70 - 130	6	35
0.100	0.08724		mg/Kg		87	70 - 130	6	35
0.200	0.1757		mg/Kg		88	70 - 130	6	35
0.100	0.09083		mg/Kg		91	70 - 130	5	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.08977 0.100 0.09741 0.100 0.08724 0.200 0.1757	Added Result Qualifier 0.100 0.08977 0.100 0.09741 0.100 0.08724 0.200 0.1757	Added Result Qualifier Unit 0.100 0.08977 mg/Kg 0.100 0.09741 mg/Kg 0.100 0.08724 mg/Kg 0.200 0.1757 mg/Kg	Added Result Qualifier Unit D 0.100 0.08977 mg/Kg 0.100 0.09741 mg/Kg 0.100 0.08724 mg/Kg 0.200 0.1757 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08977 mg/Kg 90 0.100 0.09741 mg/Kg 97 0.100 0.08724 mg/Kg 87 0.200 0.1757 mg/Kg 88	Added Result Qualifier Unit D %Rec Limits 0.100 0.08977 mg/Kg 90 70 - 130 0.100 0.09741 mg/Kg 97 70 - 130 0.100 0.08724 mg/Kg 87 70 - 130 0.200 0.1757 mg/Kg 88 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.08977 mg/Kg 90 70 - 130 5 0.100 0.09741 mg/Kg 97 70 - 130 6 0.100 0.08724 mg/Kg 87 70 - 130 6 0.200 0.1757 mg/Kg 88 70 - 130 6

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-20914-A-2-C MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 38186 Analysis Batch: 38212

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09329		mg/Kg		93	70 - 130	
Toluene	< 0.00199	U	0.101	0.09323		mg/Kg		92	70 - 130	
Ethylbenzene	< 0.00199	U	0.101	0.08300		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1664		mg/Kg		82	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.08979		mg/Kg		89	70 - 130	

o-Xylene	<0.00199	U	0.101	0.08979	mg/Kg	89
	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	84		70 - 130			

100

Lab Sample ID: 880-20914-A-2-D MSD **Client Sample ID: Matrix Spike Duplicate**

70 - 130

Matrix: Solid Analysis Batch: 38212 Prep Batch: 38186

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0994	0.08222	-	mg/Kg		83	70 - 130	13	35
Toluene	<0.00199	U	0.0994	0.08174		mg/Kg		82	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.0994	0.07245		mg/Kg		73	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1450		mg/Kg		72	70 - 130	14	35
o-Xylene	<0.00199	U	0.0994	0.07980		mg/Kg		80	70 - 130	12	35

Eurofins Carlsbad

Prep Type: Total/NA

Released to Imaging: 1/11/2023 1:59:45 PM

1,4-Difluorobenzene (Surr)

Job ID: 890-3288-1

Client: Ensolum SDG: 03D2057020 Project/Site: EVGSAU 2801

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

Lab Sample ID: 880-20914-A-2-D MSD

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 38186

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	85	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

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

Lab Sample ID: MB 880-38023/1-A

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38023

ı		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/27/22 13:56	10/29/22 21:37	1
o-Terphenyl	91		70 - 130	10/27/22 13:56	10/29/22 21:37	1

Lab Sample ID: LCS 880-38023/2-A

Matrix: Solid

Analysis Batch: 38137

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

Prep Batch: 38023

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	847.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	748.0		mg/Kg		75	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	105	70 - 130
o-Terphenyl	124	70 - 130

Lab Sample ID: LCSD 880-38023/3-A

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38023

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	784.5		mg/Kg		78	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	738.0		mg/Kg		74	70 - 130	1	20
C10 C28)									

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	120	70 - 130

Job ID: 890-3288-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3285-A-1-C MS

Matrix: Solid Analysis Batch: 38137 Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38023

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	927.7		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	80.1		998	808.7		mg/Kg		73	70 - 130	

MS MS Qualifier Limits Surrogate %Recovery 70 - 130 1-Chlorooctane 76 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-3285-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 38137

Prep Type: Total/NA

Prep Batch: 38023

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.8 998 Gasoline Range Organics 824.7 mg/Kg 80 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over 80.1 998 921.4 mg/Kg 84 70 - 130 13 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 88 70 - 130 89 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38010/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 38167

Prep Type: Soluble

Analyte Result Qualifier Unit Dil Fac RL Prepared Analyzed Chloride <5.00 U 5.00 10/30/22 12:38 mg/Kg

Lab Sample ID: LCS 880-38010/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38167

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 267.4 107 90 - 110 mg/Kg

MB MB

Lab Sample ID: LCSD 880-38010/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 38167

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D 268.4 Chloride 250 mg/Kg 107 90 _ 110 20

Client: Ensolum Job ID: 890-3288-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-20768-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38167

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	402		248	633.8		mg/Kg		94	90 - 110	

Lab Sample ID: 880-20768-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38167

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit D %Rec Chloride 402 248 634.4 mg/Kg 94 90 - 110 0

Lab Sample ID: 880-20768-A-14-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 38167

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 2040 1250 3312 102 90 - 110 mg/Kg

Lab Sample ID: 880-20768-A-14-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38167

Sample Sample Spike MSD MSD RPD %Rec Analyte Result Qualifier Added Qualifier Unit %Rec Limits RPD Limit Result Chloride 1250 2040 3321 102 90 - 110 20 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 890-3288-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

GC VOA

Prep Batch: 38105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	5035	_
890-3288-2	PH02	Total/NA	Solid	5035	
MB 880-38105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	5035	
890-3288-2	PH02	Total/NA	Solid	5035	
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	8021B	38186
890-3288-1	PH02	Total/NA	Solid	8021B	38105
890-3288-2	PH02	Total/NA	Solid	8021B	38186
890-3288-2	PH02	Total/NA	Solid	8021B	38105
MB 880-38105/5-A	Method Blank	Total/NA	Solid	8021B	38105
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	8021B	38105
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	8021B	38186
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38105
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38186
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	38186
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38186
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	38105
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38105

Analysis Batch: 38352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	Total BTEX	
890-3288-2	PH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	8015NM Prep	
890-3288-2	PH02	Total/NA	Solid	8015NM Prep	
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

 Client: Ensolum
 Job ID: 890-3288-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

GC Semi VOA

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	8015B NM	38023
890-3288-2	PH02	Total/NA	Solid	8015B NM	38023
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015B NM	38023
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38023
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38023
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38023
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38023

Analysis Batch: 38288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Total/NA	Solid	8015 NM	
890-3288-2	PH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Soluble	Solid	DI Leach	_
890-3288-2	PH02	Soluble	Solid	DI Leach	
MB 880-38010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20768-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-20768-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-20768-A-14-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-20768-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3288-1	PH02	Soluble	Solid	300.0	38010
890-3288-2	PH02	Soluble	Solid	300.0	38010
MB 880-38010/1-A	Method Blank	Soluble	Solid	300.0	38010
LCS 880-38010/2-A	Lab Control Sample	Soluble	Solid	300.0	38010
LCSD 880-38010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38010
880-20768-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38010
880-20768-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38010
880-20768-A-14-B MS	Matrix Spike	Soluble	Solid	300.0	38010
880-20768-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38010

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Client: Ensolum

Job ID: 890-3288-1

Project/Site: EVGSAU 2801 SDG: 03D2057020

Lab Sample ID: 890-3288-1

Date Collected: 10/24/22 13:00 Date Received: 10/25/22 15:17

Client Sample ID: PH02

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 18:46	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 01:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38352	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38288	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 01:33	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38010	10/27/22 11:26	СН	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	38167	10/30/22 15:38	CH	EET MID

Lab Sample ID: 890-3288-2

Client Sample ID: PH02

Date Collected: 10/24/22 13:10 Matrix: Solid Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 19:07	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38352	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38288	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 01:54	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38010	10/27/22 11:26	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38167	10/30/22 15:44	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
 Job ID: 890-3288-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

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	T104704400-22-24	06-30-23

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

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

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Method Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3288-1

SDG: 03D2057020

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3288-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-3288-1	PH02	Solid	10/24/22 13:00	10/25/22 15:17	1
890-3288-2	PH02	Solid	10/24/22 13:10	10/25/22 15:17	3

Relinquished by: (Signature)

Received by: (Signature)

0,25.32 151

eurofins

Environment Testing

Chain of Custody

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

Work Order No:

City State 7IP:	Midland TX 79701	City State ZIP		Midland, TX 79701	9701		Reporting: Level II Level	Reporting: Level II Level III PST/UST TRRP	Level IV
City, Carro En .	The state of the s						Deliverables: FOO	ADaPT Other:	
Phone:	817.683.2503	Email: kjennings@ensolum.com	nsolum.co	3			Deliverables, EDD		
Project Name:	EVGSAU 2801	Turn Around				ANALYSIS REQUEST	NEST	Preservative Codes	Codes
Project Number:	03D2057020	☑ Routine ☐ Rush	Pres. Code					None: NO	DI Water: H ₂ O
Project Location:		Due Date:						2	MeOH: Me
Sampler's Name:	Conner Shore	TAT starts the day received by	_			_	-		HNO ₃ : HN
PO#:		the lab, if received by 4:30pm		İ				H ₂ SO ₄ : H ₂ N	NaOH: Na
SAMPLE RECEIPT	Temp Blank: (es)	No Wet Ice: (Yes No	nete	.01				H₃PO₄: HP	
Samples Received Intact:	(Kes) No	Thermometer ID: NM304		300				NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No MA	Correction Factor: -0.0		FA.				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals	Yes No	Temperature Reading: . 6	S (E	3 (2		090-3200 Cilaiii Oi	all of Casions	Zn Acetate+NaOH: Zn	Zn
Total Containers:		Corrected Temperature: 1.4	PIDE		8021	_		NaOH+Ascorbic Acid: SAPC	id: SAPC
Sample Identification	ntification Matrix Sampled	e Time Depth Comp	Cont CHLOR	TPH (8	BTEX (Sample Comments	nments
PH02)2 S 10.24.22	22 1300 1' G	1	×	×				
PH02)2 S 10.24.2 23	2 23. 1310 3' G	1	×	×				
			7					Incident Number	umber
		144						NAPP2221675703	675703
		125							
		13							
					-				
//									
1									
Total 200.7 / 6010	010 200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb	As Ba Be	ω	Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn	Zn
Circle Method(s) a	Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA	11	Sb As Ba Be		Cd Cr Co Cu Pb Mn Mo I	Mo Ni Se Ag TI U H	Hg: 1631 / 245.1 / 7470 / 7471	71
Notice: Signature of this	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 for service. Furnifing 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	s constitutes a valid purchase order fro	m client comp	pany to Euroi	ins Xenco, its	affiliates and subcontractors.	It assigns standard terms and cor re due to circumstances beyond th	nditions e control	
of Eurofins Xenco. A mir	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	each project and a charge of \$5 for ear	ch sample sub	omitted to Eu	rofins Xenco,	but not analyzed. These terms	will be enforced unless previously	negotiated.	
Relinquished by: (Signature)	>	Received by: (Signature)	D	Date/Time	R	Relinquished by: (Signature)	ure) Received by: (Signature)		Date/Time
The second second second									

Company Name: Project Manager:

Kalei Jennings Ensolum, LLC

Address:

601 N Marienfeld St Suite 400

Address:

601 N Marienfeld St Suite 400

State of Project:

Program: UST/PST 🗌 PRP 🗌 Brownfields 📗 RRC 📗 Superfund 📗

Work Order Comments

www.xenco.com

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Ensolum, LLC Kalei Jennings

Bill to: (if different) Company Name:

Revised Date 08/25/2020 Rev 2020

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3288-1 SDG Number: 03D2057020

Login Number: 3288 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3288-1 SDG Number: 03D2057020

Login Number: 3288 **List Source: Eurofins Midland** List Number: 2

List Creation: 10/27/22 10:25 AM

Creator: Rodriguez, Leticia

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

Eurofins Carlsbad

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<6mm (1/4").

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3287-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

11/1/2022 1:09:45 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Review your project results through EOL **Have a Question?**

.....LINKS

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/11/2023 1:59:45 PM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3287-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3287-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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) Most Probable Number MPN Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Job ID: 890-3287-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3287-1

Receipt

The samples were received on 10/25/2022 3:17 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-3287-1) and PH03 (890-3287-2).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (890-3287-A-1-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

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 Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH03 Lab Sample ID: 890-3287-1 Date Collected: 10/24/22 13:30

Matrix: Solid

Date Received: 10/25/22 15:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201	mg/Kg		10/28/22 13:58	11/01/22 00:26	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		10/28/22 13:58	11/01/22 00:26	1
Ethylbenzene	< 0.00201	U F1	0.00201	mg/Kg		10/28/22 13:58	11/01/22 00:26	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402	mg/Kg		10/28/22 13:58	11/01/22 00:26	1
o-Xylene	< 0.00201	U F1	0.00201	mg/Kg		10/28/22 13:58	11/01/22 00:26	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		10/28/22 13:58	11/01/22 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/28/22 13:58	11/01/22 00:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130			10/28/22 13:58	11/01/22 00:26	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/22 09:40	1
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) ((SC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:36	1
-								'
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					ı
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 10/27/22 13:56	Analyzed 10/30/22 00:51	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	<u> </u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	10/27/22 13:56	10/30/22 00:51	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U U U	RL 49.9 49.9	mg/Kg	<u>D</u>	10/27/22 13:56 10/27/22 13:56	10/30/22 00:51	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	mg/Kg	<u> </u>	10/27/22 13:56 10/27/22 13:56 10/27/22 13:56	10/30/22 00:51 10/30/22 00:51 10/30/22 00:51	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U	RL 49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u> </u>	10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 Prepared	10/30/22 00:51 10/30/22 00:51 10/30/22 00:51 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 Prepared 10/27/22 13:56	10/30/22 00:51 10/30/22 00:51 10/30/22 00:51 Analyzed 10/30/22 00:51	Dil Fac 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 Prepared 10/27/22 13:56	10/30/22 00:51 10/30/22 00:51 10/30/22 00:51 Analyzed 10/30/22 00:51	Dil Fac 1 1 1 Dil Fac

Client Sample ID: PH03 Lab Sample ID: 890-3287-2

Date Collected: 10/24/22 13:45 Date Received: 10/25/22 15:17

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 00:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 00:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 00:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/28/22 13:58	11/01/22 00:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 00:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/28/22 13:58	11/01/22 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			10/28/22 13:58	11/01/22 00:47	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3287-2

10/30/22 00:14

Client Sample Results

Client: Ensolum Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH03

Date Collected: 10/24/22 13:45 Date Received: 10/25/22 15:17

Sample Depth: 4

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
,4-Difluorobenzene (Surr)	91		70 - 130			10/28/22 13:58	11/01/22 00:47	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399	U	0.00399	mg/Kg			11/01/22 09:40	1
Method: SW846 8015 NM - Dies	el Range Organi	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:36	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 01:12	1
GRO)-C6-C10 Diesel Range Organics (Over	<49.9	11	49.9	mg/Kg		10/27/22 13:56	10/30/22 01:12	1
C10-C28)	~49.9	U	45.5	mg/Kg		10/21/22 13.30	10/30/22 01.12	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 01:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	95		70 - 130			10/27/22 13:56	10/30/22 01:12	1
p-Terphenyl	103		70 - 130			10/27/22 13:56	10/30/22 01:12	1

24.9

mg/Kg

2350

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Chloride

Surrogate Summary

Job ID: 890-3287-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3287-1	PH03	99	97	
890-3287-1 MS	PH03	89	102	
890-3287-1 MSD	PH03	108	101	
890-3287-2	PH03	96	91	
LCS 880-38105/1-A	Lab Control Sample	94	97	
LCSD 880-38105/2-A	Lab Control Sample Dup	94	97	
MB 880-38105/5-A	Method Blank	114	101	
MB 880-38186/5-A	Method Blank	110	105	
Surrogate Legend				
BFB = 4-Bromofluorobenzen	e (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3285-A-1-C MS	Matrix Spike	76	81
890-3285-A-1-D MSD	Matrix Spike Duplicate	88	89
890-3287-1	PH03	91	101
890-3287-2	PH03	95	103
LCS 880-38023/2-A	Lab Control Sample	105	124
LCSD 880-38023/3-A	Lab Control Sample Dup	103	120
MB 880-38023/1-A	Method Blank	79	91

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

 Client: Ensolum
 Job ID: 890-3287-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38105/5-A

Lab Sample ID: LCS 880-38105/1-A

Matrix: Solid

Analysis Batch: 38212

Matrix: Solid Analysis Batch: 38212 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38105

ı		MB	мв						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
	Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
ı									

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/28/22 13	3:58 10/31/22 23:57	
1,4-Difluorobenzene (Surr)	101		70 - 130	10/28/22 13	3:58 10/31/22 23:57	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38105

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1009 mg/Kg 101 70 - 130 Toluene 0.100 0.1041 mg/Kg 104 70 - 130 0.100 0.09677 Ethylbenzene mg/Kg 97 70 - 130 0.200 0.1987 70 - 130 m-Xylene & p-Xylene mg/Kg 99 0.100 0.1054 70 - 130 o-Xylene mg/Kg 105

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-38105/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA Prep Batch: 38105

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09314		mg/Kg		93	70 - 130	8	35	
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	4	35	
Ethylbenzene	0.100	0.08607		mg/Kg		86	70 - 130	12	35	
m-Xylene & p-Xylene	0.200	0.1738		mg/Kg		87	70 - 130	13	35	
o-Xylene	0.100	0.09058		mg/Kg		91	70 - 130	15	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-3287-1 MS

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: PH03
Prep Type: Total/NA

Prep Batch: 38105

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.09465		mg/Kg		95	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.09684		mg/Kg		97	70 - 130	

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Client: Ensolum Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3287-1 MS **Matrix: Solid**

Analysis Batch: 38212

Client Sample ID: PH03 Prep Type: Total/NA

Prep Batch: 38105

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.0996	0.08320		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1658		mg/Kg		83	70 - 130	
o-Xylene	<0.00201	U F1	0.0996	0.08570		mg/Kg		86	70 - 130	

MS MS

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

Lab Sample ID: 890-3287-1 MSD

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: PH03 Prep Type: Total/NA

Prep Batch: 38105

Sample Sample Spike MSD MSD RPD Result Qualifier Added %Rec Limits RPD Limit Analyte Result Qualifier Unit 0.0994 Benzene <0.00201 UF1 <0.00199 UF1 mg/Kg 0 70 - 130 NC 35 Toluene 0.0994 70 - 130 <0.00201 UF1 <0.00199 UF1 mg/Kg 0 NC 35 Ethylbenzene <0.00201 UF1 0.0994 <0.00199 UF1 mg/Kg 0 70 - 130 NC 35 0.199 <0.00398 UF1 0 70 - 130 NC 35 m-Xylene & p-Xylene <0.00402 UF1 mg/Kg 0.0994 NC <0.00201 UF1 <0.00199 U F1 0 70 - 130 o-Xylene mg/Kg

MSD MSD

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

Lab Sample ID: MB 880-38186/5-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38186

MD MD

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1

MB MB

MB MB Result Qualifier

<50.0 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/30/22 16:11	10/31/22 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/30/22 16:11	10/31/22 12:23	1

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

Lab Sample ID: MB 880-38023/1-A

Matrix: Solid

Analysis Batch: 38137

Gasoline Range Organics

Client Sample ID: Method Blank

Prepared

10/27/22 13:56

Prep Type: Total/NA Prep Batch: 38023

10/29/22 21:37

(GRO)-C6-C10

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RL

50.0

Unit

mg/Kg

Client: Ensolum Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: MB 880-38023/1-A	
Marketon Callet	

Matrix: Solid Analysis Batch: 38137 Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 38023

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/27/22 13:56	10/29/22 21:37	1
o-Terphenyl	91		70 - 130	10/27/22 13:56	10/29/22 21:37	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-38023/2-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 38023

Analysis Batch: 38137

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 847.8 85 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 748.0 mg/Kg 75 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-38023/3-A Client Sample ID: Lab Control Sample Dup

Spike

Added

1000

1000

LCSD LCSD

784.5

738.0

Result Qualifier

Unit

mg/Kg

mg/Kg

D

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Analysis Batch: 38137

Gasoline Range Organics

Diesel Range Organics (Over

Prep Type: Total/NA Prep Batch: 38023

70 - 130

74

%Rec RPD %Rec Limits RPD Limit 78 70 - 130 8 20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 _ 130
o-Ternhenyl	120		70 130

Lab Sample ID: 890-3285-A-1-C MS

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 38023

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	927.7		mg/Kg		90	70 - 130	
Diesel Range Organics (Over	80.1		998	808.7		mg/Kg		73	70 - 130	

C10-C28)

	MS	WS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	81		70 - 130

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20

Job ID: 890-3287-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3285-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Prep Batch: 38023

70 - 130

84

Analysis Batch: 38137 Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.8 U 998 824.7 mg/Kg 80 70 - 130 12 (GRO)-C6-C10

921.4

mg/Kg

998

20

13

C10-C28)

MSD MSD

80.1

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38006/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 38162

Diesel Range Organics (Over

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/29/22 20:55	1

Lab Sample ID: LCS 880-38006/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	261.0		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-38006/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 261.6 105 90 - 110 mg/Kg

Lab Sample ID: 890-3283-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 38162

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	35.5		253	312 1		ma/Ka		110	90 110	

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-3283-A-1-C MSD

Matrix: Solid

Analysis Batch: 38162

Alialysis Datcii. 30102											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	35.5		253	311.9		mg/Kg		109	90 - 110	0	20

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Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

GC VOA

Prep Batch: 38105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Total/NA	Solid	5035	
890-3287-2	PH03	Total/NA	Solid	5035	
MB 880-38105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3287-1 MS	PH03	Total/NA	Solid	5035	
890-3287-1 MSD	PH03	Total/NA	Solid	5035	

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Total/NA	Solid	8021B	38105
890-3287-2	PH03	Total/NA	Solid	8021B	38105
MB 880-38105/5-A	Method Blank	Total/NA	Solid	8021B	38105
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	8021B	38105
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38105
890-3287-1 MS	PH03	Total/NA	Solid	8021B	38105
890-3287-1 MSD	PH03	Total/NA	Solid	8021B	38105

Analysis Batch: 38354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Total/NA	Solid	Total BTEX	
890-3287-2	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Total/NA	Solid	8015NM Prep	
890-3287-2	PH03	Total/NA	Solid	8015NM Prep	
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38137

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Total/NA	Solid	8015B NM	38023
890-3287-2	PH03	Total/NA	Solid	8015B NM	38023
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015B NM	38023
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38023
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38023
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38023
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38023

QC Association Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3287-1

SDG: 03D2057020

GC Semi VOA

Analysis Batch: 38287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Total/NA	Solid	8015 NM	
890-3287-2	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Soluble	Solid	DI Leach	_
890-3287-2	PH03	Soluble	Solid	DI Leach	
MB 880-38006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3283-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3283-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3287-1	PH03	Soluble	Solid	300.0	38006
890-3287-2	PH03	Soluble	Solid	300.0	38006
MB 880-38006/1-A	Method Blank	Soluble	Solid	300.0	38006
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	300.0	38006
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38006
890-3283-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38006
890-3283-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38006

Client: Ensolum Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH03 Lab Sample ID: 890-3287-1

Matrix: Solid

Date Collected: 10/24/22 13:30 Date Received: 10/25/22 15:17

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 00:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38354	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38287	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 00:51	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38006	10/27/22 11:22	СН	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	38162	10/30/22 00:08	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3287-2

Date Collected: 10/24/22 13:45 Matrix: Solid

Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38354	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38287	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 01:12	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38006	10/27/22 11:22	CH	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	38162	10/30/22 00:14	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3287-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certific	su by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay illoude allalytes lo
the agency does not of	fer certification.	,	, , ,	ay illoude allalytes lo

Method Summary

Job ID: 890-3287-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Job ID: 890-3287-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-3287-1	PH03	Solid	10/24/22 13:30	10/25/22 15:17	1
890-3287-2	PH03	Solid	10/24/22 13:45	10/25/22 15:17	4

Project Manager:

Kalei Jennings

Bill to: (if different)

Kalei Jennings

Xenco

Environment Testing

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

Revised Date: 08/25/2020 Rev. 2020 2			o		-						G
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			第10	0.35.22	_		H	0		1	0
ynature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ime	Date/Time		ture)	Received by: (Signature)	Receive		gnature)	Relinquished by: (Signature)
ns Irol tiated.	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control se terms will be enforced unless previously negotiat	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	o Eurofins Xendor expenses in d to Eurofins X	nt company t ir any losses ple submitte	from clie nsibility fo each sam	ourchase order time any respot harge of \$5 for	stitutes a valid p nd shall not assu project and a cl	of samples con it of samples a applied to each	uishment for the cos	nent and reling the liable only charge of \$85	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon 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 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. The
Hg: 1631 / 245.1 / 7470 / 7471	Ag TI U Hg: 16	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ba Be Co	A Sb As	8RCRA	TCLP / SPLP 6010:	TCLP / S	zed	e analy	letal(s) to b	Circle Method(s) and Metal(s) to be analyzed
SiO ₂ Na Sr TI Sn U V Zn	Ph Mg Mn Mo Ni K Se Ag SiO	Cd Ca Cr Co Cu Fe Pb Mg N	Ba Be B (Sb As	s 11 Al	PM Texas 11	8RCRA 13PPM	9	020:	200.8 / 6020:	Total 200.7 / 6010
					-						1
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				1	+	+				1	
									1		
					_				10		
								56			
NAPP2221675703							8	6			
Incident Number						1					
			×	×	G 1	4'	1345	10.24.2	S		PH03
			×	×	G 1	1	1330	10.24.22	S		PH03
Sample Comments			TPH (8	CHLO	Grab/ # of Comp Cont	Depth Co	Time Sampled	Date Sampled	Matrix	ation	Sample Identification
NaUH+ASCORDIC ACID: SAFC				RIDE	1_	1	Corrected Temperature:	Corrected T			Total Containers:
Zn Acetate+NaOH: Zn	lody	890-3287 Chain of Custody		S (E		1.6	e Reading:	Temperature Reading:	ZIA	Yes No	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃					Pi	- 6.7	actor:	Correction Factor:	P	Yes No	Cooler Custody Seals:
NaHSO4: NABIS			_		arar	HOOM	er ID:	Thermometer ID:	N _O	: Nes	Samples Received Intact:
H ₃ PO ₄ : HP					nete	(Yes No	Wet Ice:	No (saty)	Blank:	Temp Blank:	SAMPLE RECEIPT
H ₂ SU ₄ : H ₂ NaOH: Na		-			-	the lab, if received by 4:30pm	the lab, if reci				PO#:
				_	by	day received	TAT starts the day received by	e	Conner Shore	Conr	Sampler's Name:
<u>u</u>							Due Date:				Project Location:
None: NO DI Water: H ₂ O				ie .	Code	Rush	☑ Routine	0	03D2057020	03D	Project Number:
Preservative Codes		ANALYSIS REQUEST				Turn Around	Turn)1	EVGSAU 2801	EVG	Project Name:
ADaPT U Other:	Deliverables: EDD AI	Delive		m.com	pensolu	Email: kiennings@ensolum.com	Email:			817.683.2503	
JPST/UST TRRP Level IV	Reporting: Level III LI PST/UST LI TRRP LI	Repo	Midland, TX 79701	Midland	P	City, State ZIP:			9701	Midland, TX 79701	City, State ZIP: Mic
	State of Project:		601 N Marienfeld St Suite 400	601 N N		Address:		uite 400	eld St S	601 N Marienfeld St Suite 400	Address: 601
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	am: UST/PST PRP B	Prog	n, LLC	Ensolum, LLC	ame:	Company Name:				Ensolum, LLC	Company Name: Ens

Work Order No:

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Work Order Comments

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3287-1 SDG Number: 03D2057020

Login Number: 3287 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3287-1

SDG Number: 03D2057020

Login Number: 3287 **List Source: Eurofins Midland** List Number: 2

List Creation: 10/27/22 10:25 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3286-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/1/2022 1:08:30 PM

(432)704-5440

Jessica.Kramer@et.eurofinsus.com

Jessica Kramer, Project Manager

Review your project results through EOL **Have a Question?**

.....LINKS

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/11/2023 1:59:45 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3286-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3286-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	These commonly used abbreviations may or may not be present in this report.					
n	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					

Dilution Factor

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

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) Minimum Detectable Concentration (Radiochemistry) MDC

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

Not Calculated NC

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RFR Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3286-1

SDG: 03D2057020

Job ID: 890-3286-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3286-1

Receipt

The samples were received on 10/25/2022 3:17 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH04 (890-3286-1), PH04 (890-3286-2) and PH04 (890-3286-3).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3291-A-1-B), (890-3291-A-1-C MS) and (890-3291-A-1-D 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.

HPLC/IC

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

Lab Sample ID: 890-3286-1

10/31/22 13:36

Lab Sample ID: 890-3286-2

Client Sample Results

 Client: Ensolum
 Job ID: 890-3286-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH04

Date Collected: 10/24/22 14:05 Date Received: 10/25/22 15:17

Sample Depth: 1

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 17:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 17:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 17:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/30/22 16:11	10/31/22 17:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/30/22 16:11	10/31/22 17:45	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/30/22 16:11	10/31/22 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			10/30/22 16:11	10/31/22 17:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130			10/30/22 16:11	10/31/22 17:45	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/01/22 09:40	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/27/22 13:56	10/30/22 00:08	1
Diesel Range Organics (Over C10-C28)	861		49.8	mg/Kg		10/27/22 13:56	10/30/22 00:08	1
OII Range Organics (Over C28-C36)	138		49.8	mg/Kg		10/27/22 13:56	10/30/22 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/27/22 13:56	10/30/22 00:08	1
o-Terphenyl	100		70 - 130			10/27/22 13:56	10/30/22 00:08	1

49.8

mg/Kg

999

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualific	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600	101	mg/Kg			10/30/22 08:20	20

Client Sample ID: PH04

Date Collected: 10/24/22 14:20 Date Received: 10/25/22 15:17

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 18:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 18:05	1

Eurofins Carlsbad

2

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12

13

Matrix: Solid

Lab Sample ID: 890-3286-2

Client: Ensolum Job ID: 890-3286-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH04

Date Collected: 10/24/22 14:20 Date Received: 10/25/22 15:17

Sample Depth: 4

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	10/30/22 16:11	10/31/22 18:05	1
1,4-Difluorobenzene (Surr)	98	70 - 130	10/30/22 16:11	10/31/22 18:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation
Michiod. TAL GOT Total BTEX - Total BTEX Galcalation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/22 09:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:36	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	ININ - Dieser Itali	ge Organics	(DitO)	(00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 00:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 00:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/27/22 13:56	10/30/22 00:29	1
o-Terphenyl	112		70 - 130	10/27/22 13:56	10/30/22 00:29	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2480	25.0	mg/Kg			10/30/22 08:40	5

Client Sample ID: PH04 Lab Sample ID: 890-3286-3

Date Collected: 10/25/22 09:30 Date Received: 10/25/22 15:17

Sample Depth: 8

Method:	· SW846 8021	B - Volatile	Organic Co	mpounds (GC)

Method. Strotto duz 15 - Volat	ne Organic Comp		,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:26	1
Toluene	< 0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:26	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 18:26	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 18:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/30/22 16:11	10/31/22 18:26	1
1 4-Diffuorobenzene (Surr)	100		70 130			10/30/22 16:11	10/31/22 18:26	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/22 09:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:27	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-3286-3

Client Sample Results

Client: Ensolum Job ID: 890-3286-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH04

Date Collected: 10/25/22 09:30 Date Received: 10/25/22 15:17

Sample Depth: 8									
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 15:04	10/30/22 00:51	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 15:04	10/30/22 00:51	1	

Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	10/27/22 15:04	10/30/22 00:51	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130		10/27/22 15:04	10/30/22 00:51	1
o-Terphenvl	94		70 - 130		10/27/22 15:04	10/30/22 00:51	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	75.3		4.99	mg/Kg			10/30/22 08:47	1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3286-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20914-A-2-C MS	Matrix Spike	84	100	
880-20914-A-2-D MSD	Matrix Spike Duplicate	85	99	
890-3286-1	PH04	108	97	
890-3286-2	PH04	90	98	
890-3286-3	PH04	99	100	
LCS 880-38186/1-A	Lab Control Sample	79	92	
LCSD 880-38186/2-A	Lab Control Sample Dup	78	91	
MB 880-38186/5-A	Method Blank	110	105	

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)	
890-3285-A-1-C MS	Matrix Spike	76	81	
890-3285-A-1-D MSD	Matrix Spike Duplicate	88	89	
890-3286-1	PH04	91	100	
890-3286-2	PH04	101	112	
890-3286-3	PH04	93	94	
890-3291-A-1-C MS	Matrix Spike	105	175 S1+	
890-3291-A-1-D MSD	Matrix Spike Duplicate	101	169 S1+	
LCS 880-38023/2-A	Lab Control Sample	105	124	
LCS 880-38030/2-A	Lab Control Sample	110	113	
LCSD 880-38023/3-A	Lab Control Sample Dup	103	120	
LCSD 880-38030/3-A	Lab Control Sample Dup	104	103	
MB 880-38023/1-A	Method Blank	79	91	
MB 880-38030/1-A	Method Blank	83	86	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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5

8

10

12

13

Job ID: 890-3286-1

SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38186/5-A

Lab Sample ID: LCS 880-38186/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38212

Client: Ensolum

Analysis Batch: 38212

Project/Site: EVGSAU 2801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38186

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	1	0/30/22 16:11	10/31/22 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	1	0/30/22 16:11	10/31/22 12:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38186

Prep Type: Total/NA

Prep Batch: 38186

35

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09449 mg/Kg 94 70 - 130 Toluene 0.100 0.1036 mg/Kg 104 70 - 130 0.100 0.09290 Ethylbenzene mg/Kg 93 70 - 130 0.200 0.1873 94 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09541 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	79	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

o-Xylene

Analysis Batch: 38212

Lab Sample ID: LCSD 880-38186/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08977		mg/Kg		90	70 - 130	5	35
Toluene	0.100	0.09741		mg/Kg		97	70 - 130	6	35
Ethylbenzene	0.100	0.08724		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1757		mg/Kg		88	70 - 130	6	35

0.09083

mg/Kg

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	78	70 - 130
1 4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: 880-20914-A-2-C MS

Matrix: Solid

Analysis Batch: 38212

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

70 - 130

Prep Batch: 38186

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09329		mg/Kg		93	70 - 130	
Toluene	<0.00199	U	0.101	0.09323		mg/Kg		92	70 - 130	

0.100

QC Sample Results

Client: Ensolum Job ID: 890-3286-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 880-20914-A-2-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 38212

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.08300		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1664		mg/Kg		82	70 - 130	
o-Xylene	<0.00199	U	0.101	0.08979		mg/Kg		89	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 880-20914-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA

Prep Batch: 38186 RPD

Prep Batch: 38186

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0994 Benzene <0.00199 U 0.08222 mg/Kg 83 70 - 130 13 35 Toluene <0.00199 U 0.0994 0.08174 82 70 - 130 mg/Kg 13 35 Ethylbenzene <0.00199 U 0.0994 0.07245 mg/Kg 73 70 - 130 14 35 <0.00398 U 0.199 0.1450 72 70 - 130 35 m-Xylene & p-Xylene mg/Kg 14 0.0994 <0.00199 U 0.07980 80 70 - 130 12 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-38023/1-A

Matrix: Solid

Analysis Batch: 38137

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

Prep Batch: 38023

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/27/22 13.	56 10/29/22 21:37	1
o-Terphenyl	91		70 - 130	10/27/22 13	56 10/29/22 21:37	1

Lab Sample ID: LCS 880-38023/2-A

Matrix: Solid

Analysis Batch: 38137

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

Prep Batch: 38023

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	847.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	748.0		mg/Kg		75	70 - 130	
C10-C28)								

Prep Batch: 38023

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 38023

Job ID: 890-3286-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

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Lab Sample ID: LCS 880-38023/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid Analysis Batch: 38137

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130

Lab Sample ID: LCSD 880-38023/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

70 - 130

Matrix: Solid

o-Terphenyl

Analysis Batch: 38137							Prep	Batch:	38023
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	784.5		mg/Kg		78	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	738.0		mg/Kg		74	70 - 130	1	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane o-Terphenyl 120 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-3285-A-1-C MS

Matrix: Solid

Analysis Batch: 38137

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	998	927.7		mg/Kg		90	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	80.1		998	808.7		mg/Kg		73	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 76 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-3285-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 38137

Matrix: Solid

Analysis Batch: 38137									Prep	Batch:	38023
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	824.7		mg/Kg		80	70 - 130	12	20
Diesel Range Organics (Over	80.1		998	921.4		mg/Kg		84	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	89		70 - 130

Client: Ensolum Job ID: 890-3286-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

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

Lab Sample ID: MB 880-38030/1-A

Lab Sample ID: LCS 880-38030/2-A

Lab Sample ID: LCSD 880-38030/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38135

Analysis Batch: 38135

Matrix: Solid

Analysis Batch: 38135

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 38030

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/27/22 15:04	10/29/22 21:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/27/22 15:04	10/29/22 21:37	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 15:04	10/29/22 21:37	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	10/27/22 15:04	10/29/22 21:37	1
o-Terphenyl	86		70 - 130	10/27/22 15:04	10/29/22 21:37	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38030

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	820.2		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1025		mg/Kg		102	70 - 130	
010-020)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	113		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

70 - 130

Prep Batch: 38030

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	811.4		mg/Kg		81	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	945.5		mg/Kg		95	70 - 130	8	20
C10-C28)									

LCSD LCSD

5750

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	104	70 - 130
o-Terphenyl	103	70 - 130

Lab Sample ID: 890-3291-A-1-C MS Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Total/NA

6103 4

mg/Kg

Analysis Batch: 38135

Diesel Range Organics (Over

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	321		998	1085		mg/Kg		77	70 - 130
(CPO) C6 C10									

C10-C28)

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Prep Batch: 38030

Job ID: 890-3286-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3291-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 38135 Prep Batch: 38030

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130 o-Terphenyl 175 S1+ 70 - 130

Lab Sample ID: 890-3291-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 38135 Prep Batch: 38030

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 321 998 1054 74 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 5750 5872 4 mg/Kg 12 70 - 13020 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 101 169 S1+ 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38007/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Soluble Analysis Batch: 38166

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Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 10/30/22 08:00

Lab Sample ID: LCS 880-38007/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38166

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 263.5 mg/Kg 105 90 - 110

мв мв

Lab Sample ID: LCSD 880-38007/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 38166

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 264.0 106 90 - 110 20 mg/Kg

Lab Sample ID: 890-3286-1 MS Client Sample ID: PH04

Matrix: Solid Prep Type: Soluble Analysis Batch: 38166

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit 10600 5030 Chloride 15700 mg/Kg 101 90 - 110

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Prep Type: Soluble

QC Sample Results

 Client: Ensolum
 Job ID: 890-3286-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3286-1 MSD

Matrix: Solid

Client Sample ID: PH04

Prep Type: Soluble

Analysis Batch: 38166

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	10600		5030	15700		mg/Kg		101	90 - 110	0	20

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3286-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

GC VOA

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Total/NA	Solid	5035	
890-3286-2	PH04	Total/NA	Solid	5035	
890-3286-3	PH04	Total/NA	Solid	5035	
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Total/NA	Solid	8021B	38186
890-3286-2	PH04	Total/NA	Solid	8021B	38186
890-3286-3	PH04	Total/NA	Solid	8021B	38186
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	8021B	38186
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38186
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	38186
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38186

Analysis Batch: 38351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Total/NA	Solid	Total BTEX	
890-3286-2	PH04	Total/NA	Solid	Total BTEX	
890-3286-3	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Total/NA	Solid	8015NM Prep	
890-3286-2	PH04	Total/NA	Solid	8015NM Prep	
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 38030

Lab Sample ID 890-3286-3	Client Sample ID PH04	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-38030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-3	PH04	Total/NA	Solid	8015B NM	38030
MB 880-38030/1-A	Method Blank	Total/NA	Solid	8015B NM	38030

Eurofins Carlsbad

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QC Association Summary

Client: Ensolum Job ID: 890-3286-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

GC Semi VOA (Continued)

Analysis Batch: 38135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-38030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38030
LCSD 880-38030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38030
890-3291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38030
890-3291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38030

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Total/NA	Solid	8015B NM	38023
890-3286-2	PH04	Total/NA	Solid	8015B NM	38023
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015B NM	38023
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38023
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38023
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38023
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38023

Analysis Batch: 38279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Total/NA	Solid	8015 NM	
890-3286-2	PH04	Total/NA	Solid	8015 NM	
890-3286-3	PH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Soluble	Solid	DI Leach	
890-3286-2	PH04	Soluble	Solid	DI Leach	
890-3286-3	PH04	Soluble	Solid	DI Leach	
MB 880-38007/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38007/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38007/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3286-1 MS	PH04	Soluble	Solid	DI Leach	
890-3286-1 MSD	PH04	Soluble	Solid	DI Leach	

Analysis Batch: 38166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3286-1	PH04	Soluble	Solid	300.0	38007
890-3286-2	PH04	Soluble	Solid	300.0	38007
890-3286-3	PH04	Soluble	Solid	300.0	38007
MB 880-38007/1-A	Method Blank	Soluble	Solid	300.0	38007
LCS 880-38007/2-A	Lab Control Sample	Soluble	Solid	300.0	38007
LCSD 880-38007/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38007
890-3286-1 MS	PH04	Soluble	Solid	300.0	38007
890-3286-1 MSD	PH04	Soluble	Solid	300.0	38007

Client: Ensolum

Job ID: 890-3286-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH04

Date Received: 10/25/22 15:17

Lab Sample ID: 890-3286-1 Date Collected: 10/24/22 14:05

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 38186 Total/NA Prep 4.96 g 5 mL 10/30/22 16:11 EL **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 38212 10/31/22 17:45 MNR **EET MID** Total/NA Analysis Total BTEX 38351 11/01/22 09:40 ΑJ EET MID Total/NA 8015 NM 38279 10/31/22 13:36 **EET MID** Analysis 1 AJ Total/NA 8015NM Prep 38023 10/27/22 13:56 EET MID Prep 10.04 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 38137 10/30/22 00:08 ΑJ **EET MID** Soluble DI Leach 4.97 g 50 mL 38007 10/27/22 11:23 СН Leach **EET MID** Soluble Analysis 300.0 20 50 mL 50 mL 38166 10/30/22 08:20 СН **EET MID**

Client Sample ID: PH04 Lab Sample ID: 890-3286-2

Date Collected: 10/24/22 14:20 **Matrix: Solid**

Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38351	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38279	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 00:29	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38007	10/27/22 11:23	СН	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	38166	10/30/22 08:40	CH	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-3286-3

Date Collected: 10/25/22 09:30 **Matrix: Solid** Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38351	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38279	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 00:51	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38007	10/27/22 11:23	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38166	10/30/22 08:47	CH	EET MID

Laboratory References:

Released to Imaging: 1/11/2023 1:59:45 PM

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3286-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not o		ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
00.0				

Method Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3286-1

SDG: 03D2057020

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Job ID: 890-3286-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3286-1	PH04	Solid	10/24/22 14:05	10/25/22 15:17	-
890-3286-2	PH04	Solid	10/24/22 14:20	10/25/22 15:17	4
890-3286-3	PH04	Solid	10/25/22 09:30	10/25/22 15:17	8

Circle Method(s) and Metal(s) to be analyzed

Total

200.7 / 6010

200.8 / 6020:

8RCRA 13PPM

Texas 11 Al

Sb As Ba Sb

Be B

As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se

Ag SiO₂ Na Sr

TI Sn U

V Zn

Hg: 1631 / 245.1 / 7470 / 7471

TCLP / SPLP 6010: 8RCRA

titce: 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

13 14

Chain of Custody

2		Cliair of Cacroay	
OTINS Environment Testing	Houst Midland,	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440. San Antonio, TX (210) 509-3334	Work Order No:
Xenco	EL Pas Hobbs	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	2
	Hobbs	1 (3/3) 392-1330, Cansbad, Nin (3/3) 300-3133	www.xenco.com Page 2 of 2
Kalei Jennings	Bill to: (if different)	Kalei Jennings	Work Order Comments
Ensolum, LLC	Company Name:	Ensolum, LLC	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400	State of Project:
Midland, TX 79701	City, State ZIP:	Midland, TX 79701	Reporting: Level III Level III PST/UST TRRP Level IV
817.683.2503 Er	Email: kjennings@ensolum.com	m.com	Deliverables: EDD ADaPT Other:
EVGSAU 2801	Turn Around	ANALYSIS REQUEST	REQUEST Preservative Codes
03D2057020 🗷 Routine	Rush	Pres.	None: NO DI Water: H ₂ O
Due Date:	ate:		⊆.
Conner Shore TAT star	TAT starts the day received by		HCL: HC HNO3: HN

Phone:

roject Name:

City, State ZIP:

Project Manager:

Company Name: Address:

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

ample Custody Seals:

Yes

No

NA

Corrected Temperature: Temperature Reading: Yes No NA

Correction Factor:

Blank: Yes

Yes No

Wet Ice:

Yes) No

Parameters

TAT starts the day received by the lab, if received by 4:30pm

H2S04: H2 H₃PO₄: HP

NaOH: Na

No

Thermometer ID:

M M DB

0.0

9 t

CHLORIDES (EPA: 300.0)

Sample Identification

Matrix

Date

Time

Depth

Comp Grab/

Cont * 0

TPH (8015)

BTEX (8021

890-3286 Chain of Custody

Sampled

PH04 PH04 PHQ4

S S S

10.25.22 10.24.22 10.24.22 Sampled

930

G G G

× ×

× ×

×

1420

4 œ

1405

10.0

Sampler's Name: Project Location: Project Number:

Conner Shore

		o			
		4			
			10.35.29 15M	(Joe Wy	CX.
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS

Sample Comments

NAPP2221675703 Incident Number

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3286-1 SDG Number: 03D2057020

Login Number: 3286 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3286-1

SDG Number: 03D2057020

List Source: Eurofins Midland List Creation: 10/27/22 10:25 AM

Login Number: 3286 List Number: 2 Creator: Rodriguez, Leticia

Appropriate sample containers are used.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

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

True

True

N/A

True

N/A

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ANALYTICAL REPORT

Environment Testing

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3285-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSUA 2801

For:

🗱 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

11/1/2022 2:18:16 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

EOL

Have a Question?

.....LINKS

Review your project results through

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/11/2023 1:59:45 PM

signature is intended to be the legally binding equivalent of a traditionally handwritten

This report has been electronically signed and authorized by the signatory. Electronic

Client: Ensolum
Project/Site: EVGSUA 2801
Laboratory Job ID: 890-3285-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3285-1 Client: Ensolum Project/Site: EVGSUA 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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) Most Probable Number MPN Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EVGSUA 2801 SDG:

Job ID: 890-3285-1 SDG: 03D2057020

Job ID: 890-3285-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3285-1

Receipt

The samples were received on 10/25/2022~3:17~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 $1.4^{\circ}C$

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH05 (890-3285-1) and PH05 (890-3285-2).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (890-3287-A-1-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

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

HPLC/IC

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

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Lab Sample ID: 890-3285-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3285-1

 Project/Site: EVGSUA 2801
 SDG: 03D2057020

Client Sample ID: PH05

Date Collected: 10/24/22 15:15 Date Received: 10/25/22 15:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/28/22 13:58	11/01/22 07:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/28/22 13:58	11/01/22 07:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/28/22 13:58	11/01/22 07:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/28/22 13:58	11/01/22 07:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/28/22 13:58	11/01/22 07:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/28/22 13:58	11/01/22 07:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			10/28/22 13:58	11/01/22 07:02	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/28/22 13:58	11/01/22 07:02	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/22 09:40	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.1		49.8	mg/Kg			10/31/22 13:36	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
Gasoline Range Organics							Analyzed	Dil Fac
5 5	<49.8	U	49.8	mg/Kg	=	10/27/22 13:56	Analyzed 10/29/22 22:42	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8 80.1	U	49.8	mg/Kg				1
(GRO)-C6-C10						10/27/22 13:56	10/29/22 22:42	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	80.1	U	49.8	mg/Kg		10/27/22 13:56 10/27/22 13:56	10/29/22 22:42	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	80.1 <49.8	U	49.8 49.8	mg/Kg	— <u>-</u>	10/27/22 13:56 10/27/22 13:56 10/27/22 13:56	10/29/22 22:42 10/29/22 22:42 10/29/22 22:42	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	80.1 <49.8 %Recovery	U	49.8 49.8 Limits	mg/Kg		10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 Prepared	10/29/22 22:42 10/29/22 22:42 10/29/22 22:42 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	80.1 <49.8	U Qualifier	49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg		10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 Prepared 10/27/22 13:56	10/29/22 22:42 10/29/22 22:42 10/29/22 22:42 Analyzed 10/29/22 22:42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	80.1 <49.8 **Recovery 77 89 5, lon Chromato	U Qualifier	49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg		10/27/22 13:56 10/27/22 13:56 10/27/22 13:56 Prepared 10/27/22 13:56	10/29/22 22:42 10/29/22 22:42 10/29/22 22:42 Analyzed 10/29/22 22:42	Dil Fac

Client Sample ID: PH05

Date Collected: 10/24/22 15:30 Date Received: 10/25/22 15:17

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 10/28/22 13:58 11/01/22 08:54 Toluene <0.00202 U 0.00202 mg/Kg 10/28/22 13:58 11/01/22 08:54 Ethylbenzene <0.00202 U 0.00202 mg/Kg 10/28/22 13:58 11/01/22 08:54 <0.00404 U 0.00404 10/28/22 13:58 11/01/22 08:54 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00202 U 0.00202 10/28/22 13:58 11/01/22 08:54 mg/Kg Xylenes, Total <0.00404 U 0.00404 10/28/22 13:58 11/01/22 08:54 mg/Kg Qualifier Limits Prepared Surrogate %Recovery Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 70 - 130 10/28/22 13:58 11/01/22 08:54

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Lab Sample ID: 890-3285-2

Matrix: Solid

_

4

6

8

10

12

13

Lab Sample ID: 890-3285-2

10/30/22 00:01

Client Sample Results

Client: Ensolum Job ID: 890-3285-1 Project/Site: EVGSUA 2801 SDG: 03D2057020

Client Sample ID: PH05

Date Collected: 10/24/22 15:30 Date Received: 10/25/22 15:17

Chloride

Sample Depth: 4								
Method: SW846 8021B - Volatile O	rganic Comp	ounds (GC)	(Continued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130			10/28/22 13:58	11/01/22 08:54	1
Method: TAL SOP Total BTEX - Tot	tal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/01/22 15:07	1
- Method: SW846 8015 NM - Diesel I	Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:36	1
- Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/29/22 23:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/29/22 23:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/29/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/27/22 13:56	10/29/22 23:47	1
o-Terphenyl	118		70 - 130			10/27/22 13:56	10/29/22 23:47	1
- Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

mg/Kg

55.6

Surrogate Summary

Job ID: 890-3285-1 Client: Ensolum Project/Site: EVGSUA 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surroga
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3285-1	PH05	89	102	
890-3285-2	PH05	95	98	
890-3287-A-1-C MS	Matrix Spike	89	102	
890-3287-A-1-D MSD	Matrix Spike Duplicate	108	101	
LCS 880-38105/1-A	Lab Control Sample	94	97	
LCSD 880-38105/2-A	Lab Control Sample Dup	94	97	
MB 880-38105/5-A	Method Blank	114	101	
MB 880-38186/5-A	Method Blank	110	105	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

-			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3285-1	PH05	77	89
890-3285-1 MS	PH05	76	81
890-3285-1 MSD	PH05	88	89
890-3285-2	PH05	105	118
LCS 880-38023/2-A	Lab Control Sample	105	124
LCSD 880-38023/3-A	Lab Control Sample Dup	103	120
MB 880-38023/1-A	Method Blank	79	91

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3285-1 SDG: 03D2057020 Project/Site: EVGSUA 2801

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38105/5-A

Matrix: Solid Analysis Batch: 38212 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38105

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/28/22 13:58	10/31/22 23:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130	10/28/22 13:58	10/31/22 23:57	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-38105/1-A

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA

Prep Batch: 38105

ı		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
	Toluene	0.100	0.1041		mg/Kg		104	70 - 130	
	Ethylbenzene	0.100	0.09677		mg/Kg		97	70 - 130	
	m-Xylene & p-Xylene	0.200	0.1987		mg/Kg		99	70 - 130	
	o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	
ı									

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-38105/2-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	Control Sam	ple Dup
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Prep Type: Total/NA

Prep Batch: 38105

%Rec

	•								
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09314		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	4	35
Ethylbenzene	0.100	0.08607		mg/Kg		86	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1738		mg/Kg		87	70 - 130	13	35
o-Xylene	0.100	0.09058		mg/Kg		91	70 - 130	15	35

Spike

LCSD LCSD

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-3287-A-1-C MS

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38105

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.09465		mg/Kg		95	70 - 130	
Toluene	< 0.00201	U F1	0.0996	0.09684		mg/Kg		97	70 - 130	

Prep Batch: 38105

QC Sample Results

Job ID: 890-3285-1 Client: Ensolum Project/Site: EVGSUA 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3287-A-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 38212

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.0996	0.08320		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1658		mg/Kg		83	70 - 130	
o-Xylene	<0.00201	U F1	0.0996	0.08570		mg/Kg		86	70 - 130	

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

Lab Sample ID: 890-3287-A-1-D MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 38212

Prep Batch: 38105 Sample Sample Spike MSD MSD RPD Limit Analyte Result Qualifier babbA Result Qualifier %Rec Limits RPD Unit D Benzene <0.00201 U F1 0.0994 <0.00199 UF1 mg/Kg 0 70 - 130 NC 35 Toluene <0.00201 UF1 0.0994 <0.00199 UF1 mg/Kg 0 70 - 130 NC 35

Ethylbenzene UF1 0.0994 <0.00199 UF1 0 70 - 130 NC 35 < 0.00201 mg/Kg m-Xylene & p-Xylene < 0.00402 UF1 0.199 <0.00398 UF1 mg/Kg 0 70 - 130 NC 35 0.0994 0 70 - 130 NC o-Xylene <0.00201 UF1 <0.00199 U.F1 mg/Kg MSD MSD

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

Lab Sample ID: MB 880-38186/5-A Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 38212

MD MD

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1

MB MB Qualifier Dil Fac Limits Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 110 70 - 130 10/30/22 16:11 10/31/22 12:23 10/30/22 16:11 1,4-Difluorobenzene (Surr) 105 70 - 130 10/31/22 12:23

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

Lab Sample ID: MB 880-38023/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38137

мв мв Analyte Result Qualifier RL Unit Prepared <50.0 U 50.0 10/27/22 13:56 10/29/22 21:37 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

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Prep Batch: 38023

Prep Type: Total/NA

Prep Batch: 38186

QC Sample Results

Client: Ensolum Job ID: 890-3285-1 Project/Site: EVGSUA 2801 SDG: 03D2057020

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

Lab Sample ID: MB 880-38023/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 38023 Analysis Batch: 38137

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			10/27/22 13:56	10/29/22 21:37	1
o-Terphenyl	91		70 - 130			10/27/22 13:56	10/29/22 21:37	1

Lab Sample ID: LCS 880-38023/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 38137 Prep Batch: 38023 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 847.8 85 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 748.0 mg/Kg 75 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 105 70 - 130

Lab Sample ID: LCSD 880-38023/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 38137** Prep Batch: 38023

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	784.5		mg/Kg		78	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	738.0		mg/Kg		74	70 - 130	1	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	120		70 - 130

124

Lab Sample ID: 890-3285-1 MS Client Sample ID: PH05 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38137 Prep Batch: 38023

•	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	927.7		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	80.1		998	808.7		mg/Kg		73	70 - 130
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						

1-Chlorooctane 76 70 - 130 81 70 - 130 o-Terphenyl

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o-Terphenyl

Job ID: 890-3285-1 Client: Ensolum Project/Site: EVGSUA 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3285-1 MSD Client Sample ID: PH05 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38137

Prep Batch: 38023 Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.8 U 998 824.7 mg/Kg 80 70 - 130 12 20 (GRO)-C6-C10 998 921.4 84 70 - 130Diesel Range Organics (Over 80.1 mg/Kg 13 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 88 o-Terphenyl 89 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38006/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38162

Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 10/29/22 20:55

Lab Sample ID: LCS 880-38006/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 261.0 90 - 110 mg/Kg 104

Lab Sample ID: LCSD 880-38006/3-A

MB MB

Matrix: Solid

Analysis Batch: 38162

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 261.6 105 90 - 110 mg/Kg 0

Lab Sample ID: 890-3283-A-1-B MS

Matrix: Solid

Analysis Batch: 38162

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 253 110 90 - 110 35.5 312.1 mg/Kg

Lab Sample ID: 890-3283-A-1-C MSD

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Matrix: Solid

Analysis Batch: 38162

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D 253 Chloride 35.5 311.9 109 90 - 110 20 mg/Kg 0

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Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

QC Association Summary

Client: Ensolum

Project/Site: EVGSUA 2801

Job ID: 890-3285-1

SDG: 03D2057020

GC VOA

Prep Batch: 38105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Total/NA	Solid	5035	
890-3285-2	PH05	Total/NA	Solid	5035	
MB 880-38105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Total/NA	Solid	8021B	38105
890-3285-2	PH05	Total/NA	Solid	8021B	38105
MB 880-38105/5-A	Method Blank	Total/NA	Solid	8021B	38105
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	8021B	38105
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38105
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	38105
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38105

Analysis Batch: 38358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Total/NA	Solid	Total BTEX	
890-3285-2	PH05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Total/NA	Solid	8015NM Prep	
890-3285-2	PH05	Total/NA	Solid	8015NM Prep	
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3285-1 MS	PH05	Total/NA	Solid	8015NM Prep	
890-3285-1 MSD	PH05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Total/NA	Solid	8015B NM	38023
890-3285-2	PH05	Total/NA	Solid	8015B NM	38023
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015B NM	38023
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38023
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38023
890-3285-1 MS	PH05	Total/NA	Solid	8015B NM	38023
890-3285-1 MSD	PH05	Total/NA	Solid	8015B NM	38023

QC Association Summary

Client: Ensolum

Project/Site: EVGSUA 2801

Job ID: 890-3285-1

SDG: 03D2057020

GC Semi VOA

Analysis Batch: 38286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Total/NA	Solid	8015 NM	
890-3285-2	PH05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Soluble	Solid	DI Leach	
890-3285-2	PH05	Soluble	Solid	DI Leach	
MB 880-38006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3283-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3283-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3285-1	PH05	Soluble	Solid	300.0	38006
890-3285-2	PH05	Soluble	Solid	300.0	38006
MB 880-38006/1-A	Method Blank	Soluble	Solid	300.0	38006
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	300.0	38006
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38006
890-3283-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38006
890-3283-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38006

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 Client: Ensolum
 Job ID: 890-3285-1

 Project/Site: EVGSUA 2801
 SDG: 03D2057020

Client Sample ID: PH05

Lab Sample ID: 890-3285-1

Date Collected: 10/24/22 15:15

Date Received: 10/25/22 15:17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 07:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38358	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38286	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 22:42	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	38006	10/27/22 11:22	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	38162	10/29/22 23:54	CH	EET MID

Client Sample ID: PH05 Lab Sample ID: 890-3285-2

Date Collected: 10/24/22 15:30 Matrix: Solid

Date Received: 10/25/22 15:17

Batch

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 08:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38358	11/01/22 15:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38286	10/31/22 13:36	AJ	EET MIC
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 23:47	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38006	10/27/22 11:22	СН	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/30/22 00:01	CH	EET MIC

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3285-1 Project/Site: EVGSUA 2801

SDG: 03D2057020

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	T104704400-22-24	06-30-23
The following analytes are include	ded in this report, but the laboratory is not cer	rtified by the governing authority. This list ma	ay include analytes for which

nich 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: EVGSUA 2801

Job ID: 890-3285-1

SDG: 03D2057020

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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: EVGSUA 2801

Job ID: 890-3285-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-3285-1	PH05	Solid	10/24/22 15:15	10/25/22 15:17	1
890-3285-2	PH05	Solid	10/24/22 15:30	10/25/22 15:17	4

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City, State ZIP:

Midland, TX 79701

City, State ZIP:

Midland, TX 79701

Level IV

Program: UST/PST [] PRP [] Brownfields [] RRC [] Superfund []

Work Order Comments

State of Project:

601 N Marienfeld St Suite 400

Bill to: (if different)
Company Name:

Kalei Jennings Ensolum, LLC

601 N Marienfeld St Suite 400

Project Manager: Company Name:

Kalei Jennings Ensolum, LLC

Chain of Custody 1. TX (281) 240-4200. Dallas. TX (214) 90

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

Phone: 817.6 Project Name:	817.683.2503 EVGSAU 2801	Email	Email: kjennings@ensolum.com Turn Around	olum.co	m		ANALYSIS REQUEST	Deliverables: EDD []	ADaPT Other: Preservative Codes
Project Number:	03D2057020	☑ Routine		Pres. Code					None: NO DI Water: H ₂ O
Project Location:		Due Date:							Cool: Cool MeOH: Me
Sampler's Name:	Conner Shore	TAT starts th	TAT starts the day received by						HCL: HC HNO3: HN
PO #)	the lab, if re	the lab, if received by 4:30pm	rs	\vdash	-			H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: (Kes)	es) No Wet Ice:	Yes) No	nete	.0)				H₃PO₄: HP
Samples Received Intact:		Thermometer ID:	100 MG		300				NaHSO₄: NABIS
Cooler Custody Seals:	ō ₹	Correction Factor:	00.00		PA:				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	No N/A	Temperature Reading:	7.6		5 (EI				Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	7		_		890-3285 Chain o	Chain of Custody	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Time Sampled Sampled	Depth Grab/	# of	TPH (80	BTEX (Sample Comments
PH05	S 10.	10.24.22 1515	1' G		×	×			
PH05	S 10.	10.24.2	4' G	>	×	×			
		63	\ -						Incident Number
									NAPP2221675703
		11		-					
	0.0	•			_				
C	-								
X	\				H				
1/9									
1				_	-	-			
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13	13PPM Texas 11	Al Sb	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	tal(s) to be analyzed	TCLP / S	SPLP 6010: 8RC	RA SI	As E	За Ве	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N	Mo Ni Se Ag TI U Hg	Hg: 1631 / 245.1 / 7470 / 7471
otice: Signature of this documer service. Eurofins Xenco will be	nt and relinquishment of sa e liable only for the cost of the harde of \$85.00 will be appli	mples constitutes a valid samples and shall not ass	purchase order from c sume any responsibility charge of \$5 for each s	lient com for any l	pany to F	expense expense	otice: 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 for the control standard terms will be enforced unless previously negotiated to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiates.	ctors. It assigns standard terms and conditions sees are due to circumstances beyond the control terms will be enforced unless previously negotiated.	ditions control negotiated.
Relinquished by: (Signature)	nature) /	Received by/(Signature)	ature)	D	Date/Time	Эе	Relinquished by: (Signature)	e) Received by: (Signature)	(Signature) Date/Time
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11/1/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3285-1 SDG Number: 03D2057020

Login Number: 3285 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 8

Job Number: 890-3285-1 SDG Number: 03D2057020

List Source: Eurofins Midland
List Number: 2
List Creation: 10/27/22 10:25 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3282-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings



Authorized for release by: 10/31/2022 1:18:11 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through EOL

.....LINKS

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/11/2023 1:59:45 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3282-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3282-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

Qualifiers

GC VOA Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Percent Recovery %R 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-3282-1 Client: Ensolum

Project/Site: EVGSAU 2801 SDG: 03D2057020

Job ID: 890-3282-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3282-1

Receipt

The samples were received on 10/25/2022 3:17 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH06 (890-3282-1), PH06 (890-3282-2) and PH06 (890-3282-3).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-38024/2-A) and (LCSD 880-38024/3-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.

Matrix: Solid

Lab Sample ID: 890-3282-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3282-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH06

Date Collected: 10/25/22 11:00 Date Received: 10/25/22 15:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/28/22 14:11	10/31/22 00:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/28/22 14:11	10/31/22 00:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/28/22 14:11	10/31/22 00:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		10/28/22 14:11	10/31/22 00:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/28/22 14:11	10/31/22 00:47	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		10/28/22 14:11	10/31/22 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			10/28/22 14:11	10/31/22 00:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/28/22 14:11	10/31/22 00:47	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			10/31/22 10:18	1
Method: SW846 8015 NM - Diese			3C)					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 13:36	Dil Fac
Analyte	Result <49.8	Qualifier U	49.8		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.8	Qualifier U	49.8		D_	Prepared Prepared		Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8	mg/Kg			10/31/22 13:36	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	10/31/22 13:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 13:04	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 13:04 10/29/22 13:04	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59	Analyzed 10/29/22 13:04 10/29/22 13:04	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59 Prepared	Analyzed 10/29/22 13:04 10/29/22 13:04 10/29/22 13:04 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59 Prepared 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 13:04 10/29/22 13:04 Analyzed 10/29/22 13:04	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59 Prepared 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 13:04 10/29/22 13:04 Analyzed 10/29/22 13:04	1 Dil Fac 1

Client Sample ID: PH06

Date Collected: 10/25/22 11:50

Date Received: 10/25/22 15:17

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 01:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 01:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 01:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/28/22 14:11	10/31/22 01:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 01:07	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/28/22 14:11	10/31/22 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			10/28/22 14:11	10/31/22 01:07	1

Eurofins Carlsbad

Lab Sample ID: 890-3282-2

Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-3282-2

Client Sample Results

 Client: Ensolum
 Job ID: 890-3282-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH06

Date Collected: 10/25/22 11:50 Date Received: 10/25/22 15:17

Sample Depth: 4

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

Surrogate	%Recovery Qualifi	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 _ 130	10/28/22 14:11	10/31/22 01:07	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			10/31/22 10:18	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			10/31/22 13:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 14:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 14:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74	70 - 130	10/27/22 13:5	10/29/22 14:08	1
o-Terphenyl	84	70 - 130	10/27/22 13:5	9 10/29/22 14:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.97	mg/Kg			10/29/22 22:34	1

Client Sample ID: PH06 Lab Sample ID: 890-3282-3

Date Collected: 10/25/22 12:00 Date Received: 10/25/22 15:17

Sample Depth: 8

Mothod:	SW846 8021B	Volatile Or	ganie Compo	unde (CC)
i wethod:	5VV846 8U21B	- volatile Ur	danic Comboi	unas (GC)

Mictiloa. Offoro COZ ID - Volat	ne organie comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/28/22 14:11	10/31/22 01:28	1
Toluene	< 0.00199	U	0.00199	mg/Kg		10/28/22 14:11	10/31/22 01:28	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/28/22 14:11	10/31/22 01:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/28/22 14:11	10/31/22 01:28	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/28/22 14:11	10/31/22 01:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/28/22 14:11	10/31/22 01:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/28/22 14:11	10/31/22 01:28	1
1 A-Diffuorobenzene (Surr)	102		70 130			10/28/22 14:11	10/31/22 01:28	1

4-bromonuorobenzene (Surr)	131 31+	70 - 130	10/20/22 14.11	10/31/22 01.20	1
1,4-Difluorobenzene (Surr)	102	70 - 130	10/28/22 14:11	10/31/22 01:28	1
_					

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/31/22 10:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/31/22 13:36	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3282-3

10/29/22 22:41

Client Sample Results

 Client: Ensolum
 Job ID: 890-3282-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH06

Date Collected: 10/25/22 12:00 Date Received: 10/25/22 15:17

Sample Depth: 8

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		10/27/22 13:59	10/29/22 14:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		10/27/22 13:59	10/29/22 14:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/27/22 13:59	10/29/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			10/27/22 13:59	10/29/22 14:30	1
o-Terphenyl	97		70 - 130			10/27/22 13:59	10/29/22 14:30	1

5.02

mg/Kg

18.0

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10

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Surrogate Summary

 Client: Ensolum
 Job ID: 890-3282-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

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)	
390-3280-A-1-E MS	Matrix Spike	86	100	
390-3280-A-1-F MSD	Matrix Spike Duplicate	87	106	
890-3282-1	PH06	121	100	
890-3282-2	PH06	136 S1+	102	
390-3282-3	PH06	131 S1+	102	
LCS 880-38106/1-A	Lab Control Sample	91	101	
LCSD 880-38106/2-A	Lab Control Sample Dup	93	100	
MB 880-37947/5-A	Method Blank	96	91	
MB 880-38106/5-A	Method Blank	105	94	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3282-1	PH06	79	92	
890-3282-1 MS	PH06	82	85	
890-3282-1 MSD	PH06	99	102	
890-3282-2	PH06	74	84	
890-3282-3	PH06	88	97	
LCS 880-38024/2-A	Lab Control Sample	121	141 S1+	
LCSD 880-38024/3-A	Lab Control Sample Dup	127	145 S1+	
MB 880-38024/1-A	Method Blank	92	103	

1CO = 1-Chlorooctane

Released to Imaging: 1/11/2023 1:59:45 PM

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-3282-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37947/5-A

Matrix: Solid

Analysis Batch: 38172

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37947

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/26/22 16:25	10/30/22 12:16	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	96		70 - 130	10/26/22 16:25	10/30/22 12:16
1,4-Difluorobenzene (Surr)	91		70 - 130	10/26/22 16:25	10/30/22 12:16

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38106

мв мв

Lab Sample ID: MB 880-38106/5-A

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	J	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
Toluene	<0.00200 L	J	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
Ethylbenzene	<0.00200 L	J	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
m-Xylene & p-Xylene	<0.00400 L	J	0.00400	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
o-Xylene	<0.00200 L	J	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
Xylenes, Total	<0.00400 L	J	0.00400	mg/Kg		10/28/22 14:11	10/30/22 23:02	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/2	8/22 14:11	10/30/22 23:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/2	8/22 14:11	10/30/22 23:02	1

Lab Sample ID: LCS 880-38106/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38172

Analysis Batch: 38172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 38106

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08696		mg/Kg		87	70 - 130	
Toluene	0.100	0.08889		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.08632		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1636		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.09346		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-38106/2-A

Matrix: Solid

Analysis Batch: 38172

Client Sample ID	: Lab Control	Sample Dup
	Dean T	mar Tatal/NIA

Prep Type: Total/NA

Prep Batch: 38106

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09188		mg/Kg		92	70 - 130	6	35

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QC Sample Results

Job ID: 890-3282-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: LCSD 880-38106/2-A

Matrix: Solid Analysis Batch: 38172 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 38106

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09274 93 70 - 130 35 mg/Kg 4 Ethylbenzene 0.100 0.09100 mg/Kg 91 70 - 130 35 0.200 m-Xylene & p-Xylene 0.1709 mg/Kg 85 70 - 130 35 o-Xylene 0.100 0.09803 mg/Kg 98 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-3280-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 38172

Prep Type: Total/NA

Prep Batch: 38106

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.0998 0.08943 <0.00200 mg/Kg 89 70 - 130 Toluene <0.00200 U 0.0998 0.09103 91 70 - 130 mg/Kg Ethylbenzene 0.0998 0.08402 70 - 130 <0.00200 U mg/Kg 84 <0.00401 U 0.200 0.1535 77 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 U 0.0998 0.08661 mg/Kg 87 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-3280-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 38172

Prep Type: Total/NA

Prep Batch: 38106

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08552		mg/Kg		85	70 - 130	4	35
Toluene	<0.00200	U	0.0990	0.08543		mg/Kg		86	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0990	0.08179		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1488		mg/Kg		75	70 - 130	3	35
o-Xylene	<0.00200	U	0.0990	0.08418		mg/Kg		85	70 - 130	3	35

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-38024/1-A

Matrix: Solid

Analysis Batch: 38137

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

Prep Batch: 38024

мв мв Analyte Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 10/27/22 13:59 10/29/22 10:00 Gasoline Range Organics (GRO)-C6-C10

o-Terphenyl

QC Sample Results

Job ID: 890-3282-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

141 S1+

Lab Sample ID: MB 880-38024/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 38137 Prep Batch: 38024

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:59	10/29/22 10:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:59	10/29/22 10:00	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			10/27/22 13:59	10/29/22 10:00	1
o-Terphenyl	103		70 - 130			10/27/22 13:59	10/29/22 10:00	1

Lab Sample ID: LCS 880-38024/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 38137 Prep Batch: 38024 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1170 117 70 - 130 mg/Kg (GRO)-C6-C10 1000 855.4 Diesel Range Organics (Over mg/Kg 86 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 121

Lab Sample ID: LCSD 880-38024/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 38137 Prep Batch: 38024 Spike LCSD LCSD %Rec RPD

70 - 130

Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		1000	1233		mg/Kg		123	70 - 130	5	20
(GRO)-C6-C10										
Diesel Range Organics (Over		1000	912.3		mg/Kg		91	70 - 130	6	20
C10-C28)										
	LCSD LCSD									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	145	S1+	70 - 130
_			

Lab Sample ID: 890-3282-1 MS Client Sample ID: PH06 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 38137 Prep Batch: 38024

Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Unit %Rec Limits Analyte 994.7 <49.8 U 998 98 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 998 895.0 Diesel Range Organics (Over <49.8 U mg/Kg 70 - 130

C10-C28)			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	85		70 - 130

Client: Ensolum Job ID: 890-3282-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3282-1 MSD

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: PH06

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 38024

Sample Sample Spike MSD MSD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.8 U 998 914.9 mg/Kg 90 70 - 130 8 20 (GRO)-C6-C10 998 Diesel Range Organics (Over <49.8 U 1085 mg/Kg 107 70 - 130 19

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	102		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38006/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38162

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/29/22 20:55	1

Lab Sample ID: LCS 880-38006/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38162

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	261.0	-	mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-38006/3-A

Matrix: Solid

Analysis Batch: 38162

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	261.6		mg/Kg	_	105	90 - 110	0	20	

Lab Sample ID: 890-3280-A-1-B MS

Matrix: Solid

Analysis Batch: 38162

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	34 7		250	285 4		ma/Ka		100	90 _ 110	

Lab Sample ID: 890-3280-A-1-C MSD

Matrix: Solid

Analysis Batch: 38162

Analysis Datell. 30102											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	34.7		250	286.4		mg/Kg		101	90 - 110		20

QC Association Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3282-1 SDG: 03D2057020

GC VOA

Prep Batch: 37947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37947/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 38106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3282-1	PH06	Total/NA	Solid	5035	
890-3282-2	PH06	Total/NA	Solid	5035	
890-3282-3	PH06	Total/NA	Solid	5035	
MB 880-38106/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38106/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38106/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3280-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3280-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3282-1	PH06	Total/NA	Solid	8021B	38106
890-3282-2	PH06	Total/NA	Solid	8021B	38106
890-3282-3	PH06	Total/NA	Solid	8021B	38106
MB 880-37947/5-A	Method Blank	Total/NA	Solid	8021B	37947
MB 880-38106/5-A	Method Blank	Total/NA	Solid	8021B	38106
LCS 880-38106/1-A	Lab Control Sample	Total/NA	Solid	8021B	38106
LCSD 880-38106/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38106
890-3280-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	38106
890-3280-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38106

Analysis Batch: 38258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3282-1	PH06	Total/NA	Solid	Total BTEX	
890-3282-2	PH06	Total/NA	Solid	Total BTEX	
890-3282-3	PH06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38024

Lab Cample ID	Client Comple ID	Duan Time	Matrix	Method	Duan Datah
Lab Sample ID 890-3282-1	Client Sample ID PH06	Prep Type Total/NA	Solid	8015NM Prep	Prep Batch
890-3282-2	PH06	Total/NA	Solid	8015NM Prep	
890-3282-3	PH06	Total/NA	Solid	8015NM Prep	
MB 880-38024/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38024/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3282-1 MS	PH06	Total/NA	Solid	8015NM Prep	
890-3282-1 MSD	PH06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3282-1	PH06	Total/NA	Solid	8015B NM	38024
890-3282-2	PH06	Total/NA	Solid	8015B NM	38024
890-3282-3	PH06	Total/NA	Solid	8015B NM	38024
MB 880-38024/1-A	Method Blank	Total/NA	Solid	8015B NM	38024
LCS 880-38024/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38024

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3282-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

SDC

GC Semi VOA (Continued)

Analysis Batch: 38137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-38024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38024
890-3282-1 MS	PH06	Total/NA	Solid	8015B NM	38024
890-3282-1 MSD	PH06	Total/NA	Solid	8015B NM	38024

Analysis Batch: 38283

Lab Sample ID 890-3282-1	Client Sample ID PH06	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-3282-2	PH06	Total/NA	Solid	8015 NM	
890-3282-3	PH06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3282-1	PH06	Soluble	Solid	DI Leach	_
890-3282-2	PH06	Soluble	Solid	DI Leach	
890-3282-3	PH06	Soluble	Solid	DI Leach	
MB 880-38006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3280-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3280-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3282-1	PH06	Soluble	Solid	300.0	38006
890-3282-2	PH06	Soluble	Solid	300.0	38006
890-3282-3	PH06	Soluble	Solid	300.0	38006
MB 880-38006/1-A	Method Blank	Soluble	Solid	300.0	38006
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	300.0	38006
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38006
890-3280-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38006
890-3280-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38006

Client: Ensolum

Job ID: 890-3282-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH06 Lab Sample ID: 890-3282-1

Date Collected: 10/25/22 11:00 Matrix: Solid Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	38106	10/28/22 14:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38172	10/31/22 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38258	10/31/22 10:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38283	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38024	10/27/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 13:04	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	38006	10/27/22 11:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 22:28	CH	EET MID

Client Sample ID: PH06 Lab Sample ID: 890-3282-2

Date Collected: 10/25/22 11:50 Matrix: Solid Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38106	10/28/22 14:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38172	10/31/22 01:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38258	10/31/22 10:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38283	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38024	10/27/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 14:08	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	38006	10/27/22 11:22	СН	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 22:34	CH	EET MID

Client Sample ID: PH06 Lab Sample ID: 890-3282-3

Date Collected: 10/25/22 12:00 **Matrix: Solid** Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38106	10/28/22 14:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38172	10/31/22 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38258	10/31/22 10:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38283	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38024	10/27/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 14:30	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	38006	10/27/22 11:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 22:41	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3282-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Laboratory: Eurofins Midland

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

Authority	Pı	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	• •	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for v
Analysis Method	Prep Method	Matrix	Analyte	
		0 111	T (LTDU	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3282-1

SDG: 03D2057020

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3282-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3282-1	PH06	Solid	10/25/22 11:00	10/25/22 15:17	
890-3282-2	PH06	Solid	10/25/22 11:50	10/25/22 15:17	4
890-3282-3	PH06	Solid	10/25/22 12:00	10/25/22 15:17	8

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Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM

Texas 11 Al

Зb

As Ba Be

8

Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se

Ag SiO₂ Na Sr

TI Sn U V Zn

Hg: 1631 / 245.1 / 7470

/7471

lotice: 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

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

13 14

Chain of Custody

None: NO DI Water: H ₂ O		Routine Rush	03D2057020 🖸 Routine		ect Number
EQUEST Preservative Codes	ANALYSIS REQUEST	Turn Around	EVGSAU 2801 Tı	E	ect Name:
Deliverables: EDD ADaPT LI Other:	n.com	Email: kjennings@ensolum.com		817.683.2503	ine:
/el III ☐ PST/UST	Midland, TX 79701	City, State ZIP:	X 79701	Midland, TX 79701	State ZIP:
State of Project:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400	601 N Mar	ress:
Program: UST/PST PRP Brownfields RRC Superfund	Ensolum, LLC	Company Name:	TC	Ensolum, LLC	npany Name:
Work Order Comments	Kalei Jennings	Bill to: (if different)	ings	Kalei Jennings	ect Manager:
www.xenco.com Page 1 of 1	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM			
Work Order No:	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	Houston, T Midland, TX (EL Paso, T)	Environment Testing Xenco	ofins	eurofins

Phone:

Project Name:

City, State ZIP:

Address:

Company Name: Project Manager:

PO #:

Sampler's Name:

Conner Shore

Due Date: ✓ Routine

TAT starts the day received by the lab, if received by 4:30pm

H₂S0₄: H₂ H₃PO₄: HP

> NaOH: Na HNO3: HN

HCL: HC

Cool: Cool

MeOH: Me

03D2057020

Project Location: Project Number:

SAMPLE RECEIPT

Temp Blank:

Cres No

Wet Ice:

Z

Parameters

N 0

Thermometer ID:

IAM-

Correction Factor:

Samples Received Intact:

Sample Custody Seals: Cooler Custody Seals:

Yes

Temperature Reading.

CHLORIDES (EPA: 300.0)

890-3282 Chain of Custody

Corrected Temperature:

Yes

S S

Sample Identification

Matrix

Date

Time

Depth

Comp Grab/

Cont # of

×

TPH (8015)

BTEX (8021

Sampled

PH06 PH06 PH06

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10.25.22

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10.25.22 10.25.22 Sampled

1150 1100

G G

		0			
		4			
		200	11 ces/25/01	Annual & Stid 10/25/20 15/8	3
e) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

NaOH+Ascorbic Acid: SAPC

Sample Comments

NAPP2221675703 Incident Number Zn Acetate+NaOH: Zn

Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3282-1 SDG Number: 03D2057020

Login Number: 3282 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Joh

Job Number: 890-3282-1 SDG Number: 03D2057020

Login Number: 3282
List Source: Eurofins Midland
List Number: 2
List Creation: 10/27/22 10:25 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3281-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

JURAMER

Authorized for release by: 11/1/2022 1:13:57 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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www.eurofinsus.com/Env
Released to Imaging: 1/11/2023 1:59:45 PM

resource rolate only to the item

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum Laboratory Job ID: 890-3281-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3281-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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) Most Probable Number MPN Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3281-1

Project/Site: EVCSAU 3801

Project/Site: EVGSAU 2801 SDG: 03D2057020

Job ID: 890-3281-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3281-1

Receipt

The samples were received on 10/25/2022~3:17~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 $1.4^{\circ}C$

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH07 (890-3281-1), PH07 (890-3281-2) and PH07 (890-3281-3).

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: (890-3287-A-1-D MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC Semi VOA

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

HPLC/IC

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

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Lab Sample ID: 890-3281-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3281-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH07

Date Collected: 10/25/22 09:45 Date Received: 10/25/22 15:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/28/22 13:58	11/01/22 06:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/28/22 13:58	11/01/22 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			10/28/22 13:58	11/01/22 06:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/28/22 13:58	11/01/22 06:00	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/01/22 09:40	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/31/22 13:36	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 03:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 03:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 03:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			10/27/22 13:56	10/30/22 03:19	1
o-Terphenyl	89		70 - 130			10/27/22 13:56	10/30/22 03:19	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
		Qualifier	RL					

Client Sample ID: PH07

36.4

Date Collected: 10/25/22 09:50 Date Received: 10/25/22 15:17

Sample Depth: 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/28/22 13:58	11/01/22 06:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	11/01/22 06:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/28/22 13:58	11/01/22 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/28/22 13:58	11/01/22 06:21	1

5.00

mg/Kg

Eurofins Carlsbad

10/29/22 21:54

Lab Sample ID: 890-3281-2

Matrix: Solid

Lab Sample ID: 890-3281-2

Client: Ensolum

Job ID: 890-3281-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

Client Sample ID: PH07

Date Collected: 10/25/22 09:50 Date Received: 10/25/22 15:17

Sample Depth: 4

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	100	70 - 130	10/28/22 13:58	11/01/22 06:21	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			11/01/22 09:40	1

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

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	J	49.9	ma/Ka		.	10/31/22 13:36	1

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

		(,	(/					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 03:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:56	10/30/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99	70 - 130	10/27/22 13:56	10/30/22 03:41	1
o-Terphenyl	107	70 - 130	10/27/22 13:56	10/30/22 03:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		4.98	mg/Kg			10/29/22 22:14	1

Client Sample ID: PH07 Lab Sample ID: 890-3281-3

Date Collected: 10/25/22 10:00 Date Received: 10/25/22 15:17

Sample Depth: 8

Mothod: CMO46 0004D	Valatila Organia Com	nounda (CC)

Mictiloa. Offoro COZ ID - Volat	ne organie comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/28/22 13:58	11/01/22 06:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/28/22 13:58	11/01/22 06:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/28/22 13:58	11/01/22 06:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/28/22 13:58	11/01/22 06:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/28/22 13:58	11/01/22 06:41	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/28/22 13:58	11/01/22 06:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			10/28/22 13:58	11/01/22 06:41	1
1 A-Diffuorobenzene (Surr)	98		70 130			10/28/22 13:58	11/01/22 06:41	1

1,4-Difluorobenzene (Surr)	98	70 - 130	10/28/22 13:58	11/01/22 06:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg		_	11/01/22 09:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/31/22 13:36	1

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Matrix: Solid

Lab Sample ID: 890-3281-3

Client Sample Results

 Client: Ensolum
 Job ID: 890-3281-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH07

Date Collected: 10/25/22 10:00 Date Received: 10/25/22 15:17

Sample Depth: 8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 04:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 04:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/30/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			10/27/22 13:56	10/30/22 04:02	1
o-Terphenyl	95		70 - 130			10/27/22 13:56	10/30/22 04:02	1

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	luble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.7		5.00	mg/Kg			10/29/22 22:21	1

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum Job ID: 890-3281-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3281-1	PH07	93	94	
890-3281-2	PH07	94	100	
890-3281-3	PH07	91	98	
890-3287-A-1-C MS	Matrix Spike	89	102	
890-3287-A-1-D MSD	Matrix Spike Duplicate	108	101	
LCS 880-38105/1-A	Lab Control Sample	94	97	
LCSD 880-38105/2-A	Lab Control Sample Dup	94	97	
MB 880-38105/5-A	Method Blank	114	101	
MB 880-38186/5-A	Method Blank	110	105	
Surrogate Legend				

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)	
890-3281-1	PH07	78	89	
890-3281-2	PH07	99	107	
890-3281-3	PH07	85	95	
890-3285-A-1-C MS	Matrix Spike	76	81	
890-3285-A-1-D MSD	Matrix Spike Duplicate	88	89	
LCS 880-38023/2-A	Lab Control Sample	105	124	
LCSD 880-38023/3-A	Lab Control Sample Dup	103	120	
MB 880-38023/1-A	Method Blank	79	91	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3281-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38105/5-A

Matrix: Solid Analysis Batch: 38212 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38105

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 13:58	10/31/22 23:57	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		10/28/22 13:58	10/31/22 23:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/28/22 13:58	10/31/22 23:57	1
1.4-Difluorobenzene (Surr)	101		70 - 130	10/28/22 13:58	10/31/22 23:57	1

Lab Sample ID: LCS 880-38105/1-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38105

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09677		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1987		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-38105/2-A

Matrix: Solid

Analysis Batch: 38212

Prep Type: Total/NA

Prep Batch: 38105

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09314		mg/Kg		93	70 - 130	8	35	
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	4	35	
Ethylbenzene	0.100	0.08607		mg/Kg		86	70 - 130	12	35	
m-Xylene & p-Xylene	0.200	0.1738		mg/Kg		87	70 - 130	13	35	
o-Xylene	0.100	0.09058		mg/Kg		91	70 - 130	15	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-3287-A-1-C MS

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Matrix Spike	е
Prep Type: Total/N/	4

Prep Batch: 38105

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.09465		mg/Kg		95	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.09684		mg/Kg		97	70 - 130	

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QC Sample Results

 Client: Ensolum
 Job ID: 890-3281-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

MS MS

0.08320

0.1658

0.08570

Result Qualifier

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

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

Lab Sample ID: 890-3287-A-1-C MS

Matrix: Solid

Analyte

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 38212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38105

 Unit
 D
 %Rec

 mg/Kg
 84
 70 - 130

83

86

MS MS

Sample Sample

<0.00201 UF1

<0.00402 UF1

<0.00201 UF1

Result Qualifier

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

Client Sample ID: Matrix Spike Duplicate

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 38105

Matrix: Solid

Lab Sample ID: 890-3287-A-1-D MSD

Analysis Batch: 38212

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg			70 - 130	NC	35
Toluene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	<0.00398	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00201	U F1	0.0994	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35

MSD MSD

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

Lab Sample ID: MB 880-38186/5-A

Matrix: Solid

Analysis Batch: 38212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38186

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/30/22 16:11	10/31/22 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/30/22 16:11	10/31/22 12:23	1

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

Lab Sample ID: MB 880-38023/1-A

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 38023

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Far

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 10/27/22 13:56
 10/29/22 21:37
 10/29/22 21:37

(GRO)-C6-C10

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1

2

5

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8

10

12

4 4

11/1/2022

QC Sample Results

Client: Ensolum Job ID: 890-3281-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: MB 880-38023/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-38023/2-A

Analysis Batch: 38137

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38023

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
	C10-C28)								
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:56	10/29/22 21:37	1
ı									

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/27/2	2 13:56	10/29/22 21:37	1
o-Terphenyl	91		70 - 130	10/27/2	2 13:56	10/29/22 21:37	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38023

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	847.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	748.0		mg/Kg		75	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-38023/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 38137

Analysis Batch: 38137

Prep Type: Total/NA Prep Batch: 38023

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	784.5		mg/Kg		78	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	738.0		mg/Kg		74	70 - 130	1	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 103 70 - 130

120

80.1

Lab Sample ID: 890-3285-A-1-C MS

Matrix: Solid

o-Terphenyl

Analysis Batch: 38137

Diesel Range Organics (Over

Client Sample ID: Matrix Spike

73

70 - 130

Prep Type: Total/NA Prep Batch: 38023

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.8 U 998 927.7 90 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10

808.7

mg/Kg

998

70 - 130

C10-C28)

	INIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	81		70 - 130

Job ID: 890-3281-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 890-3285-A-1-D MSD Matrix: Solid Analysis Batch: 38137						Client Sa	ample ID	•	pike Dup Type: To p Batch:	tal/NA	
Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	i

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	998	824.7		mg/Kg		80	70 - 130	12	20
(GRO)-C6-C10											
Diesel Range Organics (Over	80.1		998	921.4		mg/Kg		84	70 - 130	13	20
C10-C28)											
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Analyte Result Gasoline Range Organics <49.8 (GRO)-C6-C10 Diesel Range Organics (Over 80.1	Gasoline Range Organics <49.8 U (GRO)-C6-C10 Diesel Range Organics (Over 80.1	Analyte Result Qualifier Added Gasoline Range Organics <49.8	Analyte Result Qualifier Added Result Gasoline Range Organics <49.8	AnalyteResult Gasoline Range OrganicsQualifierAddedResult 998Qualifier(GRO)-C6-C1080.1998921.4	Analyte Result Qualifier Added Result Qualifier Unit Gasoline Range Organics <49.8 U 998 824.7 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 80.1 998 921.4 mg/Kg	Analyte Result Qualifier Added Result Qualifier Unit Dasoline Range Organics <49.8 U 998 824.7 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 80.1 998 921.4 mg/Kg	AnalyteResult Gasoline Range OrganicsQualifierAddedResult 998QualifierUnitD%RecGasoline Range Organics<49.8	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8	Analyte Result Gasoline Range Organics Qualifier Value Added Pesult Added Pesult Qualifier Value Qualifier Value Unit Value Description RPD Value Gasoline Range Organics (Over Value) 49.8 U 998 921.4 Value mg/Kg 80.4 70 - 130 13

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 70 - 130 88 o-Terphenyl 89 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38006/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/29/22 20:55	1

Lab Sample ID: LCS 880-38006/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	261.0		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-38006/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

	Spike	LCSD	LCSD			%Rec		RPD	
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	RPD	Limit	
Chloride	250	261.6	m	ig/Kg	105	90 - 110	0	20	

Lab Sample ID: 890-3280-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	34 7		250	285 4		ma/Ka		100	90 110	

Lab Sample ID: 890-3280-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

7 many old Batolin do res												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	34 7		250	286 4		ma/Ka		101	90 - 110		20	

QC Association Summary

Client: Ensolum

Job ID: 890-3281-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

GC VOA

Prep Batch: 38105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Total/NA	Solid	5035	
890-3281-2	PH07	Total/NA	Solid	5035	
890-3281-3	PH07	Total/NA	Solid	5035	
MB 880-38105/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Total/NA	Solid	8021B	38105
890-3281-2	PH07	Total/NA	Solid	8021B	38105
890-3281-3	PH07	Total/NA	Solid	8021B	38105
MB 880-38105/5-A	Method Blank	Total/NA	Solid	8021B	38105
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38105/1-A	Lab Control Sample	Total/NA	Solid	8021B	38105
LCSD 880-38105/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38105
890-3287-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	38105
890-3287-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38105

Analysis Batch: 38357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Total/NA	Solid	Total BTEX	
890-3281-2	PH07	Total/NA	Solid	Total BTEX	
890-3281-3	PH07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Total/NA	Solid	8015NM Prep	
890-3281-2	PH07	Total/NA	Solid	8015NM Prep	
890-3281-3	PH07	Total/NA	Solid	8015NM Prep	
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Total/NA	Solid	8015B NM	38023
890-3281-2	PH07	Total/NA	Solid	8015B NM	38023
890-3281-3	PH07	Total/NA	Solid	8015B NM	38023
MB 880-38023/1-A	Method Blank	Total/NA	Solid	8015B NM	38023
LCS 880-38023/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38023

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11/1/2022

QC Association Summary

Client: Ensolum Job ID: 890-3281-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

GC Semi VOA (Continued)

Analysis Batch: 38137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-38023/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38023
890-3285-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38023
890-3285-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38023

Analysis Batch: 38290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Total/NA	Solid	8015 NM	
890-3281-2	PH07	Total/NA	Solid	8015 NM	
890-3281-3	PH07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Soluble	Solid	DI Leach	_
890-3281-2	PH07	Soluble	Solid	DI Leach	
890-3281-3	PH07	Soluble	Solid	DI Leach	
MB 880-38006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3280-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3280-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3281-1	PH07	Soluble	Solid	300.0	38006
890-3281-2	PH07	Soluble	Solid	300.0	38006
890-3281-3	PH07	Soluble	Solid	300.0	38006
MB 880-38006/1-A	Method Blank	Soluble	Solid	300.0	38006
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	300.0	38006
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38006
890-3280-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38006
890-3280-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38006

Date Received: 10/25/22 15:17

Job ID: 890-3281-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH07 Lab Sample ID: 890-3281-1 Date Collected: 10/25/22 09:45

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 4.99 g 38105 Total/NA Prep 5 mL 10/28/22 13:58 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 38212 11/01/22 06:00 MNR **EET MID** Total/NA Analysis Total BTEX 38357 11/01/22 09:40 ΑJ EET MID Total/NA 8015 NM 38290 10/31/22 13:36 **EET MID** Analysis 1 ΑJ Total/NA 8015NM Prep 38023 10/27/22 13:56 EET MID Prep 10.01 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 38137 10/30/22 03:19 ΑJ **EET MID** 5 g Soluble DI Leach 50 mL 38006 10/27/22 11:22 СН Leach **EET MID** Soluble Analysis 300.0 50 mL 50 mL 38162 10/29/22 21:54 СН **EET MID**

Client Sample ID: PH07 Lab Sample ID: 890-3281-2

Date Collected: 10/25/22 09:50 **Matrix: Solid**

Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38357	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38290	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 03:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38006	10/27/22 11:22	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 22:14	CH	EET MID

Client Sample ID: PH07 Lab Sample ID: 890-3281-3

Date Collected: 10/25/22 10:00 **Matrix: Solid** Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38105	10/28/22 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	11/01/22 06:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38357	11/01/22 09:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38290	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	38023	10/27/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/30/22 04:02	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38006	10/27/22 11:22	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 22:21	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3281-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-24		
The following analytes the agency does not of	' '	ut the laboratory is not certif	led by the governing authority. This list ma	ay include analytes for	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

Method Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3281-1

SDG: 03D2057020

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	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3281-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3281-1	PH07	Solid	10/25/22 09:45	10/25/22 15:17	1
890-3281-2	PH07	Solid	10/25/22 09:50	10/25/22 15:17	4
890-3281-3	PH07	Solid	10/25/22 10:00	10/25/22 15:17	8

Circle Method(s) and Metal(s

Relinquished by: (Signature)

Received by: (Signature)

10/25/20 15/10

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev 2020 2

eurofins

Xenco

Environment Testing

Phone:

City, State ZIP:

Midland, TX 79701

City, State ZIP:

Midland, TX 79701

601 N Marienfeld St Suite 400

Company Name: Bill to: (if different)

Ensolum, LLC Kalei Jennings

Program: UST/PST 🗌 PRP 🗌 Brownfields 🔲 RRC 🔲 Superfund 📗

Work Order Comments

www.xenco.com

Page

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으

Level IV

State of Project:

601 N Marienfeld St Suite 400

Address: Company Name: Project Manager:

Ensolum, LLC Kalei Jennings

Project Name:

Project Number:

SAMPLE RECEIPT

Samples Received Intact:

Cooler Custody Seals:

Sampler's Name:

Project Location:

Chain of Custody

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

hone: 817.	817.683.2503 EVGSAU 2801	2801		Email:	Email: kjennings@ensolum.com	@ensol	um.co) à			AN	ANALYSIS R	Q III	Deliverables: EDD UEST	bles:] dd		≥	DaP	ADaPT 🗆		DaPT Other: Preservative Codes
roject Number:	03D2057020	7020		☑ Routine	Rush	ဂ မှ	Pres.	H	H							\square				None:	None: NO	None: NO DI Water: H ₂ O
roject Location:			D	Due Date:							-									Cool: (Cool: Cool	
ampler's Name:	Conner Shore	Shore		TAT starts the day received by the lab, if received by 4:30pm	day receive eived by 4:3		5	_				= -			= -					H ₂ S0 ₄ :	Hillering H ₂ SO ₄ : H ₂	H ₂ SQ; H ₂ NaOH: Na
AMPLE RECEIPT	Temp Blank:	K: Yes	8	Wet ice:	Keg N	8	nete	.0)												Н ₃ РО ₄	H₃PO₄: HP	H₃PO₄; HP
amples Received Intact:			Thermometer ID:	Ö	T.M.	7 7		300						=	≣					NaHS	NaHSO₄: NAB	NaHSO ₄ : NABIS
ooler Custody Seals:	0	MA Com	Correction Factor:	tor:	ġ	2					8 ≅	3281		=								
ample Custody Seals:	Yes No	N/A/ Tem	Temperature Reading:	Reading:	1.6	3	- /E	3 (E			18	020-0201 CI	nain o	10	usto	ain of Custody	Custody	custody	custody			
otal Containers:		Corre	Corrected Temperature:	perature:	- 4		IDE		_						_	_	 _ _	_	_	NaOH	NaOH+Ascorb	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Sar	Date Sampled	Time Sampled	Depth	Grab/ #	Cont CHLOR	TPH (8	BTEX (Sample	Sample Comments
PH07	S	10.25.22	5.22	945	Ť	ഒ	1	×	×		-											
PH07	S	10.25.22	5.22	950	4.	ഒ		×	×		_											
PH07	S	10.2	0.25.22	1000	8,	ഒ	1	×	×		_				\vdash						Incide	Incident Number
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Total 200.7 / 6010 200.8 / 6020: rcle Method(s) and Metal(s) to be analyzed	200.8 / 6020: Metal(s) to be an): nalyzed	8R	8RCRA 13PPM Texas 11 Al Sb As TCLP / SPLP 6010: 8RCRA Sb As	PM Texa	as 11 /	A St	As Ba As Ba	a Be B Ba Be C	Cd Ca	Cr Co	Cu Fe b Mn	Mo N	II (5 II	Se A	Mn Mo N Se Ag Til	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K St	K Se A	K Se A	K Se Ag SiO ₂ Na Sr Hg: 1631/245.	K Se Ag SiO ₂ Na Sr Hg: 1631/245.	K Se Ag SiO ₂ Na Hg: 1631 / 2
Signature of this docum	ment and relinquish	ment of sam	ples constit	utes a valid p shall not assu	urchase orde	er from cli	ent com	pany to osses o	Eurofins	nco, its affi incurred by	illates and the clien	subcontr if such lo	sctors. It	d as	igns	igns standar	signs standard terms a to circumstances bey	signs standard terms and cond to circumstances beyond the conference unless provided to	tice: 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 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	signs standard terms and conditions to circumstances beyond the control	signs standard terms and conditions to circumstances beyond the control	signs standard terms and conditions to circumstances beyond the control conference unless previously pagnisted
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3281-1 SDG Number: 03D2057020

Login Number: 3281 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3281-1 SDG Number: 03D2057020

List Source: Eurofins Midland

Login Number: 3281 List Number: 2 List Creation: 10/27/22 10:25 AM Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3284-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🛟 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MAMER

Authorized for release by: 10/31/2022 4:47:51 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3284-1
SDG: 03D2057020

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Definitions/Glossary

Job ID: 890-3284-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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) Minimum Detectable Concentration (Radiochemistry) MDC

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

Not Calculated NC

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RFR

Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-3284-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Job ID: 890-3284-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3284-1

Receipt

The samples were received on 10/25/2022 3:17 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH08 (890-3284-1), PH08 (890-3284-2) and PH08 (890-3284-3).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3291-A-1-B), (890-3291-A-1-C MS) and (890-3291-A-1-D 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.

HPLC/IC

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

Lab Sample ID: 890-3284-1

Client Sample Results

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH08

Date Collected: 10/25/22 10:10 Date Received: 10/25/22 15:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:33	1
Toluene	< 0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:33	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 14:33	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			10/30/22 16:11	10/31/22 14:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/30/22 16:11	10/31/22 14:33	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/31/22 15:30	1
Method: SW846 8015 NM - Diese	al Pange Organ	ice (DRO) ((3C)					
Michiga, Offord of to Hill - Diese	or italige Organ							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result 56.0	, , ,	•	Unitmg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 13:27	Dil Fac
Total TPH	56.0	Qualifier	RL 49.9		<u>D</u>	Prepared		
	56.0 sel Range Orga	Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	56.0 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		<u> </u>	10/31/22 13:27	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	56.0 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	10/31/22 13:27 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 10/27/22 15:04	10/31/22 13:27 Analyzed 10/29/22 23:47	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 56.0	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 15:04 10/27/22 15:04	10/31/22 13:27 Analyzed 10/29/22 23:47 10/29/22 23:47	1 Dil Fac 1 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	56.0 sel Range Orga Result <49.9 56.0 <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 15:04 10/27/22 15:04 10/27/22 15:04	Analyzed 10/29/22 23:47 10/29/22 23:47 10/29/22 23:47	1 Dil Fac 1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	56.0 sel Range Orga Result <49.9 56.0 <49.9 %Recovery	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 15:04 10/27/22 15:04 10/27/22 15:04 Prepared	Analyzed 10/29/22 23:47 10/29/22 23:47 10/29/22 23:47 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	56.0 sel Range Orga Result <49.9 56.0 <49.9 %Recovery 86 89	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 15:04 10/27/22 15:04 10/27/22 15:04 Prepared 10/27/22 15:04	Analyzed 10/29/22 23:47 10/29/22 23:47 10/29/22 23:47 Analyzed 10/29/22 23:47	1 Dil Fac 1 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Sel Range Orga Result	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 15:04 10/27/22 15:04 10/27/22 15:04 Prepared 10/27/22 15:04	Analyzed 10/29/22 23:47 10/29/22 23:47 10/29/22 23:47 Analyzed 10/29/22 23:47	1 Dil Fac 1 Dil Fac 1

Client Sample ID: PH08

Date Collected: 10/25/22 10:15 Date Received: 10/25/22 15:17

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 14:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/30/22 16:11	10/31/22 14:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/30/22 16:11	10/31/22 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			10/30/22 16:11	10/31/22 14:54	

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Lab Sample ID: 890-3284-2

Matrix: Solid

Lab Sample ID: 890-3284-2

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH08

Date Collected: 10/25/22 10:15 Date Received: 10/25/22 15:17

Sample Depth: 4

Method: SW846 8021B - Volatile Or	ganic Compounds	(GC)	(Continued)
modification of the court of th	gaine compounds		(Continuou)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	95	70 - 130	10/30/22 16:11	10/31/22 14:54	1

Method: TAL So	OP Total BTFX	- Total BTEX	Calculation
INICIIIOG. IAL O	JI IOLAI DILA	- IUlai DILA	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			10/31/22 15:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/31/22 13:27	1

Method: SW846 8015B NM - Diesel Range Or	ganics (DRO)	(GC)
Michiga Offoro Colod Min - Dieser Range Of	garries (Dito)	(00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/27/22 15:04	10/30/22 00:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/27/22 15:04	10/30/22 00:08	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/27/22 15:04	10/30/22 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78	70 - 130	10/27/22 15:0	4 10/30/22 00:08	1
o-Terphenyl	78	70 - 130	10/27/22 15:0	4 10/30/22 00:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.8		5.00	mg/Kg			10/29/22 23:41	1

Client Sample ID: PH08 Lab Sample ID: 890-3284-3

Date Collected: 10/25/22 10:25 Date Received: 10/25/22 15:17

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 15:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 15:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 15:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 15:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 15:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			10/30/22 16:11	10/31/22 15:14	1
4.4.Differench augus (0)	0.7		70 400			10/20/20 10:11	10/01/00 15:11	

4-bromonuoropenzene (Surr)	65	70 - 130	10/30/22 10.11	10/31/22 15.14	ı
1,4-Difluorobenzene (Surr)	97	70 - 130	10/30/22 16:11	10/31/22 15:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	ט	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg		_	10/31/22 17:34	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:27	1

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH08

Lab Sample ID: 890-3284-3 Date Collected: 10/25/22 10:25 Date Received: 10/25/22 15:17

Matrix: Solid

Sample Depth: 8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		10/27/22 15:04	10/30/22 00:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/27/22 15:04	10/30/22 00:29	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 15:04	10/30/22 00:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			10/27/22 15:04	10/30/22 00:29	1
o-Terphenyl	99		70 - 130			10/27/22 15:04	10/30/22 00:29	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
raidiyto								

Surrogate Summary

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-20914-A-2-C MS	Matrix Spike	84	100	
880-20914-A-2-D MSD	Matrix Spike Duplicate	85	99	
890-3284-1	PH08	82	100	
890-3284-2	PH08	82	95	
890-3284-3	PH08	85	97	
LCS 880-38186/1-A	Lab Control Sample	79	92	
LCSD 880-38186/2-A	Lab Control Sample Dup	78	91	
MB 880-38186/5-A	Method Blank	110	105	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3284-1	PH08	86	89
890-3284-2	PH08	78	78
890-3284-3	PH08	97	99
890-3291-A-1-C MS	Matrix Spike	105	175 S1+
890-3291-A-1-D MSD	Matrix Spike Duplicate	101	169 S1+
LCS 880-38030/2-A	Lab Control Sample	110	113
LCSD 880-38030/3-A	Lab Control Sample Dup	104	103
MB 880-38030/1-A	Method Blank	83	86

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38186/5-A

Lab Sample ID: LCS 880-38186/1-A

Matrix: Solid

Analysis Batch: 38212

Matrix: Solid Analysis Batch: 38212 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38186

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	
Toluene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/30/22 16:11	10/31/22 12:23	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/30/22 16:11	10/31/22 12:23	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pr	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/30	0/22 16:11	10/31/22 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/3	0/22 16:11	10/31/22 12:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38186

Prep Type: Total/NA

Prep Batch: 38186

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09449 mg/Kg 94 70 - 130 Toluene 0.100 0.1036 mg/Kg 104 70 - 130 0.100 0.09290 Ethylbenzene mg/Kg 93 70 - 130 0.200 0.1873 70 - 130 m-Xylene & p-Xylene mg/Kg 94 0.100 0.09541 70 - 130 o-Xylene mg/Kg 95

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	79	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-38186/2-A

Analysis Batch: 38212

-	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualif	fier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08977	mg/Kg		90	70 - 130	5	35
Toluene	0.100	0.09741	mg/Kg		97	70 - 130	6	35
Ethylbenzene	0.100	0.08724	mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1757	mg/Kg		88	70 - 130	6	35
o-Xylene	0.100	0.09083	mg/Kg		91	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-20914-A-2-C MS

Matrix: Solid

Analysis Batch: 38212

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

Prep Batch: 38186

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09329		mg/Kg		93	70 - 130	
Toluene	< 0.00199	U	0.101	0.09323		mg/Kg		92	70 - 130	

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1

Prep Batch: 38186

Prep Type: Total/NA

12

QC Sample Results

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: 880-20914-A-2-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 38212

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.08300		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1664		mg/Kg		82	70 - 130	
o-Xylene	<0.00199	U	0.101	0.08979		mg/Kg		89	70 - 130	

MS MS

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-20914-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

0.0994

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 38212

00212									Prep	Batch:	30100
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	<0.00199	U	0.0994	0.08222		mg/Kg		83	70 - 130	13	35
	< 0.00199	U	0.0994	0.08174		mg/Kg		82	70 - 130	13	35
	< 0.00199	U	0.0994	0.07245		mg/Kg		73	70 - 130	14	35
	<0.00398	U	0.199	0.1450		mg/Kg		72	70 - 130	14	35

mg/Kg

0.07980

MSD MSD

<0.00199 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-38030/1-A

Matrix: Solid

Analysis Batch: 38135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38030

Client Sample ID: Lab Control Sample

70 - 130

ı		IND	MID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/27/22 15:04	10/29/22 21:37	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/22 15:04	10/29/22 21:37	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 15:04	10/29/22 21:37	1
н									

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	10/27/2	2 15:04	10/29/22 21:37	1
o-Terphenyl	86		70 - 130	10/27/22	2 15:04	10/29/22 21:37	1

Lab Sample ID: LCS 880-38030/2-A

Matrix: Solid

Matrix: Solid							Prep Ty	pe: Total/NA
Analysis Batch: 38135							Prep E	Batch: 38030
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	820.2		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1025		mg/Kg		102	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: LCS 880-38030/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 38135

Prep Type: Total/NA Prep Batch: 38030

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-38030/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 38135

Prep Type: Total/NA Prep Batch: 38030

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 811.4 81 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 945.5 95 mg/Kg 70 - 1308 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 104 70 - 130 1-Chlorooctane 103 70 - 130 o-Terphenyl

Lab Sample ID: 890-3291-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 38135

Diesel Range Organics (Over

Prep Batch: 38030 Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics 321 998 1085 mg/Kg 77 70 - 130 (GRO)-C6-C10

6103 4

mg/Kg

35

70 - 130

998

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 105 70 - 130 o-Terphenyl 175 S1+

5750

Lab Sample ID: 890-3291-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 38135

Matrix: Solid Prep Type: Total/NA

Prep Batch: 38030

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	321		998	1054		mg/Kg		74	70 - 130	3	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	5750		998	5872	4	mg/Kg		12	70 - 130	4	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	169	S1+	70 - 130

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Released to Imaging: 1/11/2023 1:59:45 PM

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38006/1-A

Matrix: Solid

Analysis Batch: 38162

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 10/29/22 20:55

Lab Sample ID: LCS 880-38006/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 261.0 mg/Kg 104 90 - 110

MB MB

Lab Sample ID: LCSD 880-38006/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 38162

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 261.6 mg/Kg 105 90 - 110

Lab Sample ID: 890-3283-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 38162

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 35.5 253 312.1 110 90 - 110 mg/Kg

Lab Sample ID: 890-3283-A-1-C MSD

Matrix: Solid

Analysis Batch: 38162

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 35.5 253 311.9 mg/Kg 109 90 - 110 0 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

GC VOA

Prep Batch: 38186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Total/NA	Solid	5035	
890-3284-2	PH08	Total/NA	Solid	5035	
890-3284-3	PH08	Total/NA	Solid	5035	
MB 880-38186/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Total/NA	Solid	8021B	38186
890-3284-2	PH08	Total/NA	Solid	8021B	38186
890-3284-3	PH08	Total/NA	Solid	8021B	38186
MB 880-38186/5-A	Method Blank	Total/NA	Solid	8021B	38186
LCS 880-38186/1-A	Lab Control Sample	Total/NA	Solid	8021B	38186
LCSD 880-38186/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38186
880-20914-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	38186
880-20914-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38186

Analysis Batch: 38312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Total/NA	Solid	Total BTEX	
890-3284-2	PH08	Total/NA	Solid	Total BTEX	
890-3284-3	PH08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Total/NA	Solid	8015NM Prep	
890-3284-2	PH08	Total/NA	Solid	8015NM Prep	
890-3284-3	PH08	Total/NA	Solid	8015NM Prep	
MB 880-38030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Total/NA	Solid	8015B NM	38030
890-3284-2	PH08	Total/NA	Solid	8015B NM	38030
890-3284-3	PH08	Total/NA	Solid	8015B NM	38030
MB 880-38030/1-A	Method Blank	Total/NA	Solid	8015B NM	38030
LCS 880-38030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38030
LCSD 880-38030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38030
890-3291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38030
890-3291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38030

QC Association Summary

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801

SDG: 03D2057020

GC Semi VOA

Analysis Batch: 38278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Total/NA	Solid	8015 NM	
890-3284-2	PH08	Total/NA	Solid	8015 NM	
890-3284-3	PH08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Soluble	Solid	DI Leach	
890-3284-2	PH08	Soluble	Solid	DI Leach	
890-3284-3	PH08	Soluble	Solid	DI Leach	
MB 880-38006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3283-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3283-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 38162

Released to Imaging: 1/11/2023 1:59:45 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3284-1	PH08	Soluble	Solid	300.0	38006
890-3284-2	PH08	Soluble	Solid	300.0	38006
890-3284-3	PH08	Soluble	Solid	300.0	38006
MB 880-38006/1-A	Method Blank	Soluble	Solid	300.0	38006
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	300.0	38006
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38006
890-3283-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	38006
890-3283-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	38006

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH08 Lab Sample ID: 890-3284-1

Date Collected: 10/25/22 10:10 Matrix: Solid Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38312	10/31/22 15:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38278	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/29/22 23:47	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	38006	10/27/22 11:22	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 23:34	СН	EET MID

Client Sample ID: PH08 Lab Sample ID: 890-3284-2 Matrix: Solid

Date Collected: 10/25/22 10:15 Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 14:54	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			38312	10/31/22 15:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38278	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 00:08	AJ	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	38006	10/27/22 11:22	СН	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 23:41	CH	EET MII

Client Sample ID: PH08 Lab Sample ID: 890-3284-3 Date Collected: 10/25/22 10:25

Date Received: 10/25/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	38186	10/30/22 16:11	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38212	10/31/22 15:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38312	10/31/22 17:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38278	10/31/22 13:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38030	10/27/22 15:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38135	10/30/22 00:29	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	38006	10/27/22 11:22	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 23:48	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3284-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report, bι	ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes fo	
the agency does not of	fer certification.			,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

Method Summary

Job ID: 890-3284-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. 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

Job ID: 890-3284-1

SDG: 03D2057020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3284-1	PH08	Solid	10/25/22 10:10	10/25/22 15:17	
890-3284-2	PH08	Solid	10/25/22 10:15	10/25/22 15:17	
890-3284-3	PH08	Solid	10/25/22 10:25	10/25/22 15:17	8

Circle Method(s)

Total 200.7 / 6

Votice: Signature of this

Service. Eurofins Xer Eurofins Xenco. A m Relinquished b

eurofins

Phone:

Project Name:

SAMPLE RECE

Samples Received

Sample Custody Se Cooler Custody Sea

otal Containers:

Sample ide

Project Location: Project Number:

Sampler's Name:

Address:

City, State ZIP:

Project Manager:

Company Name:

Environment Testing

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Chain of Custody

¥ [7]	Environment lesting	Suns	Midla	nd, TX	(432) 70)4-5440	San A	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:	
			Hot	obs, NM	(575) 3	192-755	0, Carls	Hobbs, NM (575) 392-7550. Carlsbad, NM (575) 988-3199	www.xenco.com	Page 1 of 1
Kalei Jennings			Bill to: (if different)	ent)	Kale	Kalei Jennings	ngs		Work Order Comments	Comments
Ensolum, LLC			Company Name:	ne:	Ensc	Ensolum, LLC	[C		Program: UST/PST 🗌 PRP 🗌 Brownfields 🔲 RRC 🗎 Superfund 📗	nfields 🗌 RRC 🔲 Superfund 🗌
601 N Marienfeld St Suite 400	d St Suite 400		Address:		601	N Mari	enfeld	601 N Marienfeld St Suite 400	State of Project:	
Midland, TX 79701	701		City, State ZIP:	٠,٧	Midla	Midland, TX 79701	(7970		Reporting: Level II Level III PST/UST TRRP	T/UST TRRP Level IV
817.683.2503		Email:	Email: kjennings@ensolum.com	nsolu	m.com				Deliverables: EDD ADaPT	T Other:
EVGS	EVGSAU 2801	Turn	Turn Around					ANALYSIS REQUEST	QUEST	Preservative Codes
03D2	03D2057020	☑ Routine	☐ Rush	Code	0 .					None: NO DI Water: H ₂ O
		Due Date:					_			Cool: Cool MeOH: Me
Conne	Conner Shore	TAT starts the	TAT starts the day received by the lab, if received by 4:30pm			Г				H ₂ SO ₄ : H ₂ NaOH: Na
IPT Temp Blank:	ank: (Yes No	Wet Ice:	Yes No	nete	.0)					H ₃ PO ₄ : HP
Intact: (Yes	No Thermometer ID:	ler ID:	DOWN	aran	300					NaHSO ₄ : NABIS
als: Yes No	Correction Factor:	Correction Factor:	- 0.0	P	(EPA					Zn Acetate+NaOH: Zn
	\sqcup	Corrected Temperature:	2.1		IDES	15)	8021	890-3284 Chain	Chain of Custody	NaOH+Ascorbic Acid: SAPC
ntification	Matrix Date Sampled	Time Sampled	Depth Comp	by # of Cont	CHLOR	TPH (8	BTEX (Sample Comments
08	S 10.25.22	1010	1' G	_	×	×	×			
08	S 10.25.22	1015	4' G		×	×	×			
08	S 10.25.22	1025	8 ¹	_	×	×	×			Incident Number
	1.0	1	-							NAPP2221675703
	68.9									
				\parallel	\parallel	#	-			
Ó				\Box	\forall					
010 200.8 / 6020: and Metal(s) to be analyzed		8RCRA 13PPM TCLP/SPLP	TCLP / SPLP 6010: 8RCRA	RCRA	Sb A	As Ba As Ba	Be B	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn N Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	ONK Se A	yg SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470/7471
document and relinque	ishment of samples cou	nstitutes a valid p	ourchase order from any responsi	om clien bility for	t compa	ny to Eu ses or e	rofins X	document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors, too 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 the contractions and the contraction of the cost of samples and school of the cost of	ard terms and c stances beyond unless previous	
(Signatura)) Doggin	d by (Ciana	turo)		חפיני	Data/Time		Cianatura) Date/Time Relinquished by: (Cianatura)	Received by: (Signature)	re) Date/Time
	(twe	E CV/		5	0.92.33	2)	57			
		=		_						

Work Order No:

Revised Date 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3284-1 SDG Number: 03D2057020

Login Number: 3284 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job N

Job Number: 890-3284-1 SDG Number: 03D2057020

Login Number: 3284
List Source: Eurofins Midland
List Number: 2
List Creation: 10/27/22 10:25 AM

Creator: Rodriguez, Leticia

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

4

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4

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13

14

<6mm (1/4").



3

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7

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12

13

Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3283-1

Laboratory Sample Delivery Group: 03D2057020

Client Project/Site: EVGSAU 2801

For:

🗱 eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings



Authorized for release by: 10/31/2022 1:18:43 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through

.....LINKS

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 1/11/2023 1:59:45 PM

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Client: Ensolum
Project/Site: EVGSAU 2801
Laboratory Job ID: 890-3283-1
SDG: 03D2057020

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Sample Summary	18
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Eurofins Carlsbad 10/31/2022

Definitions/Glossary

Job ID: 890-3283-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2057020

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-3283-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

Job ID: 890-3283-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3283-1

Receipt

The samples were received on 10/25/2022 3:28 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH09 (890-3283-1), PH09 (890-3283-2) and PH09 (890-3283-3).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-38024/2-A) and (LCSD 880-38024/3-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.

Matrix: Solid

Lab Sample ID: 890-3283-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3283-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH09

Date Collected: 10/25/22 10:35 Date Received: 10/25/22 15:28

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/28/22 14:11	10/31/22 01:49	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/28/22 14:11	10/31/22 01:49	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		10/28/22 14:11	10/31/22 01:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/28/22 14:11	10/31/22 01:49	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/28/22 14:11	10/31/22 01:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/28/22 14:11	10/31/22 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/28/22 14:11	10/31/22 01:49	1
1,4-Difluorobenzene (Surr)	106		70 - 130			10/28/22 14:11	10/31/22 01:49	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/31/22 10:18	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) ((Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/31/22 13:36	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			10/31/22 13:36	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga	Qualifier U nics (DRO) Qualifier U	(GC)	mg/Kg		Prepared	10/31/22 13:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 14:51	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 14:51 10/29/22 14:51	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result < 49.9 sel Range Orga Result < 49.9 < 49.9 < 49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59	Analyzed 10/29/22 14:51 10/29/22 14:51	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59 Prepared	Analyzed 10/29/22 14:51 10/29/22 14:51 Analyzed Analyzed	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59 Prepared 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 14:51 10/29/22 14:51 Analyzed 10/29/22 14:51	1 Dil Fac 1 Dil Fac 1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/27/22 13:59 10/27/22 13:59 10/27/22 13:59 Prepared 10/27/22 13:59	10/31/22 13:36 Analyzed 10/29/22 14:51 10/29/22 14:51 Analyzed 10/29/22 14:51	1 Dil Fac 1 Dil Fac 1 Dil Fac 1

Client Sample ID: PH09

Date Collected: 10/25/22 10:40

Date Received: 10/25/22 15:28

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/31/22 02:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/31/22 02:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/31/22 02:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/28/22 14:11	10/31/22 02:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/31/22 02:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/28/22 14:11	10/31/22 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			10/28/22 14:11	10/31/22 02:09	1

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Lab Sample ID: 890-3283-2

2

3

5

7

10

12

13

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3283-2

Client Sample Results

Client: Ensolum Job ID: 890-3283-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH09

Date Collected: 10/25/22 10:40 Date Received: 10/25/22 15:28

Sample Depth: 4

Method: SW846 8021B	- Volatile Organic	Compounds (GC)	(Continued)
Michiga. Strotto duz i B	- Voiatile Organic	Compounds (901	Continueu

Surrogate	%Recovery Qua	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107	70 - 130	10/28/22 14:11	10/31/22 02:09	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/31/22 10:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 15:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 15:12	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91	70 - 130	10/27/22 13:59	10/29/22 15:12	1
o-Terphenyl	104	70 - 130	10/27/22 13:59	10/29/22 15:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415	4.98	mg/Kg			10/29/22 23:08	1

Client Sample ID: PH09 Lab Sample ID: 890-3283-3

Date Collected: 10/25/22 10:50 Date Received: 10/25/22 15:28

Sample Depth: 8

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 02:30	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 02:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 02:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/28/22 14:11	10/31/22 02:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/28/22 14:11	10/31/22 02:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/28/22 14:11	10/31/22 02:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			10/28/22 14:11	10/31/22 02:30	1
1 1 Differenchemanne (Court)	100		70 120			10/20/22 14:11	10/21/22 02:20	1

3					
4-Bromofluorobenzene (Surr)	119	70 - 130	10/28/22 14:11	10/31/22 02:30	1
1,4-Difluorobenzene (Surr)	100	70 - 130	10/28/22 14:11	10/31/22 02:30	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	ma/Ka			10/31/22 10:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/31/22 13:36	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3283-3

10/29/22 23:14

Client Sample Results

 Client: Ensolum
 Job ID: 890-3283-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

Client Sample ID: PH09

Date Collected: 10/25/22 10:50 Date Received: 10/25/22 15:28

Sample Depth: 8

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 15:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 15:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/22 13:59	10/29/22 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			10/27/22 13:59	10/29/22 15:34	1
o-Terphenyl	98		70 - 130			10/27/22 13:59	10/29/22 15:34	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.05

mg/Kg

192

2

6

8

9

10

12

13

14

Surrogate Summary

Client: Ensolum Job ID: 890-3283-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3280-A-1-E MS	Matrix Spike	86	100	
890-3280-A-1-F MSD	Matrix Spike Duplicate	87	106	
890-3283-1	PH09	117	106	
890-3283-2	PH09	125	107	
890-3283-3	PH09	119	100	
LCS 880-38106/1-A	Lab Control Sample	91	101	
LCSD 880-38106/2-A	Lab Control Sample Dup	93	100	
MB 880-37947/5-A	Method Blank	96	91	
MB 880-38106/5-A	Method Blank	105	94	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
-3282-A-1-C MS	Matrix Spike	82	85	
)-3282-A-1-D MSD	Matrix Spike Duplicate	99	102	
)-3283-1	PH09	85	97	
)-3283-2	PH09	91	104	
)-3283-3	PH09	86	98	
S 880-38024/2-A	Lab Control Sample	121	141 S1+	
D 880-38024/3-A	Lab Control Sample Dup	127	145 S1+	
880-38024/1-A	Method Blank	92	103	

1CO = 1-Chlorooctane

DFBZ = 1,4-Difluorobenzene (Surr)

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3283-1 SDG: 03D2057020 Project/Site: EVGSAU 2801

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37947/5-A

Matrix: Solid Analysis Batch: 38172 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 37947

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/26/22 16:25	10/30/22 12:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/26/22 16:25	10/30/22 12:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/26/22 16:25	10/30/22 12:16	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/26/22 16:25	10/30/22 12:16	1

Lab Sample ID: MB 880-38106/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38106

Analysis Batch: 38172 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/22 14:11	10/30/22 23:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/22 14:11	10/30/22 23:02	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/2	8/22 14:11	10/30/22 23:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/2	8/22 14:11	10/30/22 23:02	1

Lab Sample ID: LCS 880-38106/1-A

Matrix: Solid

Analysis Batch: 38172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 38106

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08696		mg/Kg		87	70 - 130	
Toluene	0.100	0.08889		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.08632		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1636		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.09346		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-38106/2-A

Matrix: Solid

Analysis Batch: 38172

Client Sample ID	: Lab Control Sample Dup
	Duny Towns Total/NIA

Prep Type: Total/NA

Prep Batch: 38106

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09188	mg/Kg		92	70 - 130	6	35	

QC Sample Results

Job ID: 890-3283-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: LCSD 880-38106/2-A

Matrix: Solid Analysis Batch: 38172 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 38106

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09274 93 70 - 130 35 mg/Kg 4 Ethylbenzene 0.100 0.09100 mg/Kg 91 70 - 130 35 0.200 0.1709 m-Xylene & p-Xylene mg/Kg 85 70 - 130 35 o-Xylene 0.100 0.09803 mg/Kg 98 70 - 130 5 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-3280-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 38172

Prep Type: Total/NA

Prep Batch: 38106

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.0998 0.08943 <0.00200 mg/Kg 89 70 - 130 Toluene <0.00200 U 0.0998 0.09103 91 70 - 130 mg/Kg Ethylbenzene 0.0998 0.08402 70 - 130 <0.00200 U mg/Kg 84 <0.00401 U 0.200 0.1535 77 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 U 0.0998 0.08661 mg/Kg 87 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-3280-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 38172

Prep Type: Total/NA

Prep Batch: 38106

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08552		mg/Kg		85	70 - 130	4	35
Toluene	<0.00200	U	0.0990	0.08543		mg/Kg		86	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0990	0.08179		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1488		mg/Kg		75	70 - 130	3	35
o-Xylene	<0.00200	U	0.0990	0.08418		mg/Kg		85	70 - 130	3	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-38024/1-A

Matrix: Solid

Analysis Batch: 38137

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

Prep Batch: 38024

мв мв Analyte Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 10/27/22 13:59 10/29/22 10:00 Gasoline Range Organics (GRO)-C6-C10

QC Sample Results

Client: Ensolum Job ID: 890-3283-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

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

Lab Sample ID: MB 880-38024/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-38024/2-A

Analysis Batch: 38137

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 38024

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/27/22 13:59	10/29/22 10:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/22 13:59	10/29/22 10:00	1

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	92		70 - 130	10/27/22 13:59	10/29/22 10:00	1
l	o-Terphenyl	103		70 - 130	10/27/22 13:59	10/29/22 10:00	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 38024

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1170 117 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 855.4 mg/Kg 86 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: LCSD 880-38024/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 38137

Analysis Batch: 38137

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

Prep Batch: 38024

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1233		mg/Kg		123	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	912.3		mg/Kg		91	70 - 130	6	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 127 70 - 130 o-Terphenyl 145 S1+ 70 - 130

Lab Sample ID: 890-3282-A-1-C MS

Matrix: Solid

Analysis Batch: 38137

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 38024

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	994.7		mg/Kg		98	70 - 130	
Diesel Range Organics (Over	<49.8	U	998	895.0		mg/Kg		88	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	85		70 - 130

Job ID: 890-3283-1

Client: Ensolum SDG: 03D2057020 Project/Site: EVGSAU 2801

Limits

70 - 130

70 - 130

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

%Recovery Qualifier

99

102

Lab Sample ID: 890-3282-A-1 Matrix: Solid Analysis Batch: 38137	-D MSD					CI	lient S	ample IC		oike Dup Type: Tot Batch:	tal/NA
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	914.9		mg/Kg		90	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1085		mg/Kg		107	70 - 130	19	20
	MSD	MSD									

Method:	300 O	- Anione	lon	Chromatography
welliou.	300.U	- Allions,	1011	Ciliolialography

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

	Lab Sample ID: MB 880-38006/1-A	Client Sample ID: Method Blank
	Matrix: Solid	Prep Type: Soluble
	Analysis Batch: 38162	
1	MR MR	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/29/22 20:55	1

Lab Sample ID: LCS 880-38006/2-A				Client	Sample	ID: Lab Control Sam	ıple
Matrix: Solid						Prep Type: Solu	ıble
Analysis Batch: 38162							
	Spike	LCS LCS				%Rec	
Δnalyte	hahhΔ	Result Qualif	ier Unit	D	%Rec	l imits	

Chloride	250	261.0	mg/Kg	104	90 - 110	
Lab Sample ID: LCSD 880-38006/3-A			Client S	ample ID: I	Lab Control Sa	imple Dup

Analysis Batch: 38162									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	261.6		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-3283-1 MS	Client Sample ID: PH09
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 38162										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	35.5		253	312.1		mg/Kg		110	90 - 110	

Lab Sample ID: 890-3283-1 MSD	Client Sample ID: PH09
Matrix: Solid	Pren Tyne: Soluble

Analysis Batch: 38162												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	35.5		253	311.9		ma/Ka		109	90 - 110		20	

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3283-1 SDG: 03D2057020

GC VOA

Prep Batch: 37947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-37947/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 38106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3283-1	PH09	Total/NA	Solid	5035	
890-3283-2	PH09	Total/NA	Solid	5035	
890-3283-3	PH09	Total/NA	Solid	5035	
MB 880-38106/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38106/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38106/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3280-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3280-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 38172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3283-1	PH09	Total/NA	Solid	8021B	38106
890-3283-2	PH09	Total/NA	Solid	8021B	38106
890-3283-3	PH09	Total/NA	Solid	8021B	38106
MB 880-37947/5-A	Method Blank	Total/NA	Solid	8021B	37947
MB 880-38106/5-A	Method Blank	Total/NA	Solid	8021B	38106
LCS 880-38106/1-A	Lab Control Sample	Total/NA	Solid	8021B	38106
LCSD 880-38106/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38106
890-3280-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	38106
890-3280-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	38106

Analysis Batch: 38259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3283-1	PH09	Total/NA	Solid	Total BTEX	
890-3283-2	PH09	Total/NA	Solid	Total BTEX	
890-3283-3	PH09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 38024

I ah Camula ID	Client Comple ID	Duan Time	Matrix	Mathad	Duan Datah
Lab Sample ID 890-3283-1	Client Sample ID PH09	Prep Type Total/NA	Solid	Method 8015NM Prep	Prep Batch
890-3283-2	PH09	Total/NA	Solid	8015NM Prep	
890-3283-3	PH09	Total/NA	Solid	8015NM Prep	
MB 880-38024/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38024/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3282-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3282-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3283-1	PH09	Total/NA	Solid	8015B NM	38024
890-3283-2	PH09	Total/NA	Solid	8015B NM	38024
890-3283-3	PH09	Total/NA	Solid	8015B NM	38024
MB 880-38024/1-A	Method Blank	Total/NA	Solid	8015B NM	38024
LCS 880-38024/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38024

Eurofins Carlsbad

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3283-1

 Project/Site: EVGSAU 2801
 SDG: 03D2057020

GC Semi VOA (Continued)

Analysis Batch: 38137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-38024/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38024
890-3282-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	38024
890-3282-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38024

Analysis Batch: 38284

Lab Sample ID 890-3283-1	Client Sample ID PH09	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-3283-2	PH09	Total/NA	Solid	8015 NM	
890-3283-3	PH09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3283-1	PH09	Soluble	Solid	DI Leach	_
890-3283-2	PH09	Soluble	Solid	DI Leach	
890-3283-3	PH09	Soluble	Solid	DI Leach	
MB 880-38006/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3283-1 MS	PH09	Soluble	Solid	DI Leach	
890-3283-1 MSD	PH09	Soluble	Solid	DI Leach	

Analysis Batch: 38162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3283-1	PH09	Soluble	Solid	300.0	38006
890-3283-2	PH09	Soluble	Solid	300.0	38006
890-3283-3	PH09	Soluble	Solid	300.0	38006
MB 880-38006/1-A	Method Blank	Soluble	Solid	300.0	38006
LCS 880-38006/2-A	Lab Control Sample	Soluble	Solid	300.0	38006
LCSD 880-38006/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38006
890-3283-1 MS	PH09	Soluble	Solid	300.0	38006
890-3283-1 MSD	PH09	Soluble	Solid	300.0	38006

Lab Chronicle

Job ID: 890-3283-1 Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2057020

Client Sample ID: PH09

Date Received: 10/25/22 15:28

Lab Sample ID: 890-3283-1 Date Collected: 10/25/22 10:35

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 4.97 g 38106 Total/NA Prep 5 mL 10/28/22 14:11 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 38172 10/31/22 01:49 MNR **EET MID** Total/NA Analysis Total BTEX 38259 10/31/22 10:18 ΑJ EET MID Total/NA 8015 NM 38284 **EET MID** Analysis 1 10/31/22 13:36 AJ Total/NA 8015NM Prep 38024 10/27/22 13:59 EET MID Prep 10.02 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 38137 10/29/22 14:51 ΑJ **EET MID** Soluble DI Leach 4.95 g 50 mL 38006 10/27/22 11:22 СН Leach **EET MID** Soluble Analysis 300.0 50 mL 50 mL 38162 10/29/22 22:48 СН **EET MID**

Client Sample ID: PH09 Lab Sample ID: 890-3283-2

Date Collected: 10/25/22 10:40 **Matrix: Solid**

Date Received: 10/25/22 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	38106	10/28/22 14:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38172	10/31/22 02:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38259	10/31/22 10:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38284	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	38024	10/27/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 15:12	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	38006	10/27/22 11:22	СН	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 23:08	CH	EET MID

Lab Sample ID: 890-3283-3 **Client Sample ID: PH09**

Date Collected: 10/25/22 10:50 Date Received: 10/25/22 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	38106	10/28/22 14:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38172	10/31/22 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			38259	10/31/22 10:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38284	10/31/22 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	38024	10/27/22 13:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38137	10/29/22 15:34	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	38006	10/27/22 11:22	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	38162	10/29/22 23:14	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3283-1 Project/Site: EVGSAU 2801 SDG: 03D2057020

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	ut the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	fer certification.		, , ,	,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3283-1

SDG: 03D2057020

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-3283-1

SDG: 03D2057020

3302037020	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-3283-1	PH09	Solid	10/25/22 10:35	10/25/22 15:28	1
890-3283-2	PH09	Solid	10/25/22 10:40	10/25/22 15:28	4
890-3283-3	PH09	Solid	10/25/22 10:50	10/25/22 15:28	8

Phone:

817.683.2503 Midland, TX 79701 Address:

601 N Marienfeld St Suite 400

Project Manager: Company Name:

Kalei Jennings

Xenco

Environment

Ensolum, LLC

City, State ZIP:

SAMPLE RECEIPT

Sampler's Name:

Conner Shore

Due Date:

☑ Routine

☐ Rush

Code

ANALYSIS REQUEST

Turn Around

TAT starts the day received by the lab, if received by 4:30pm

Wet ice:

Project Location:

Project Number: Project Name:

EVGSAU 2801 03D2057020

Parameters

Chain of Custody

Deliverables: EDD	um com	Email: kiennings@ensolum.com	Email:
Reporting: Level II Level III PST/UST TRRP Level IV	Midland, TX 79701	City, State ZIP:	
State of Project:	601 N Marienfeld St Suite 400	Address:	
Program: UST/PST PRP Brownfields RRC Superfund	Ensolum, LLC	Company Name:	
Work Order Comments	Kalei Jennings	Bill to: (if different)	
www.xenco.com Page _ of			
	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, N	
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso,	
Work Order No:	Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440. San Antonio, TX (210) 509-3334	Houston, Midland, TX	Testing

Revised Date 08/25/2020 Rev 2020 2			6	-		4			5
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		ture)	Received by: (Signature)	Recei		Relinquished by: (Signature)
	such losses are due to circumstances beyond the control . These terms will be enforced unless previously negotiated.		any losses or expenses in e submitted to Eurofins X	bility for ch samp	me any respons	and shall not assu ach project and a ch	st of sample applied to e	e only for the co of \$85.00 will be	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 soft service. Eurofins Xenco, and inclinate to Eurofins Xenco, but not analyzed to Eurofins Xenco, but not analyzed to Eurofins Xenco, but not analyzed.
	standard terms and conditions	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	company to Eurofins Xen	om client	urchase order fr	onstitutes a valid p	of samples	relinquishment	Notice: Signature of this document ar
/7470 /7471	Ng TI U Hg: 1631 / 245.1 / 7470 / 7471	Cr Co Cu Pb Mn Mo Ni Se Ag TI U	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb	RCRA	PLP 6010: 8	TCLP / SI	zed) to be analy	Circle Method(s) and Metal(s) to be analyzed
'I Sn U V Zn	K Se /	Cd Ca Cr Co Cu Fe Pb Mg Mn	Sb As Ba Be B (11 AI	PM Texas	8RCRA 13PPM Texas 11 Al		200.8 / 6020:	Total 200.7 / 6010 20
									\
				T					10.
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NAPP2221675703				_	\	1)		
Incident Number			×		G G	1050	10.25.22	S	PH09
			×		4' G	1040	10.25.22	S	PH09
			×		1' G	1035	10.25.22	S	PH09
Sample Comments	w w		CHLOR	p Cont	Depth Comp	Time d Sampled	Date Sampled	Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC			015)		7	Corrected Temperature:	Corrected		Total Containers:
Zn Acetate+NaOH: Zn	THE CHARLES	890-3283 Chain of Custody			9.1	N/A Temperature Reading:	Tempera	No	Sample Custody Seals: Yes
Na ₂ S ₂ O ₃ : NaSO ₃	Na ₂ S ₂ C		PA:	P	0.0	Factor:	Correction Factor:	8	Cooler Custody Seals: Yes
NaHSO ₄ : NABIS	Naity		300	arai	FORWA		Thermometer ID:	res No	Samples Received Intact:
	13 (4:11		0.0)	me	Yes No	Wet ice:	Yes No	emp Blank:	SAMPLE RECEIPT

H₃PO₄: HP

Cool: Cool HCL: HC H₂SO₄: H₂

MeOH: Me HNO₃: HN

NaOH: Na

None: NO

DI Water: H₂O

Preservative Codes

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3283-1 SDG Number: 03D2057020

Login Number: 3283 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3283-1

 SDG Number: 03D2057020

List Source: Eurofins Midland List Creation: 10/27/22 10:25 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3283

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

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<6mm (1/4").



APPENDIX C

Lithologic / Sampling Logs

								Sample Name: PH01	Date: 10-24-2022
						1.0		Site Name: EVGSAU 2801	
			N	3	OL	. U	V	Incident Number: NAPP22216757	03
F C.								Job Number: 03D2057020	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord		2.80302,						Hole Diameter:	Total Depth: 4'
					ith HACH Ch	loride Test S	trips and	PID for chloride and vapor, respec	tively. Chloride test
perfor	med with	n 1:4 dilut	tion f	actor of soi	l to distilled	water. No co	orrection f	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De:	scriptions
Υ	4468	3.3	Υ		4 -	L - 1' -	SP-SM	SAND, well graded, dark brograined	own, med-coarse
N	3158	4.7	N	PH01	2'	2' 	CCHE	CALICHE	
N	N 224 6.4 N T T 3' CCHE							CALICHE	
N	N 67 3.3 N PH01A 4' 4' CCHE							CALICHE	
					-	- - -			
					† 	- - -			
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								Sample Name: PH02	Date: 10-24-2022
1	7							Site Name: EVGSAU 2801	
			N	3	OL	. U	V	Incident Number: NAPP22216757	03
								Job Number: 03D2057020	
		LITHOL	OGI	C / SOIL S	AMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord	inates: 32							Hole Diameter:	Total Depth: 4'
Comm	ents: Fie	ld screen	ing co	nducted w	ith HACH Ch	loride Test S	strips and	PID for chloride and vapor, respect	tively. Chloride test
perfor	med with	n 1:4 dilut	tion f	actor of soi	l to distilled	water. No co	orrection f	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De:	scriptions
Υ	4860	1.3	Υ	PH02	1'] -	L - 1' -	SP-SM	SAND, well graded, dark brograined	own, med-coarse
N	666.4	1.3	N		-	2' 	CCHE	CALICHE	
N	N 196 5.6 N PHO2A 3' 3' CCHE							CALICHE	
N	ND	13.7	N		-	CCHE	CALICHE		
					- -	- - -			
					-	- - -			
					-	- - -			
					-	<u>-</u> -			
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					-	- - -			
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					-	- - -			

								Sample Name: PH03	Date: 10-24-2022
7	7						B .4	Site Name: EVGSAU 2801	Date: 10 24 2022
			N	5	OL	_ U	V	Incident Number: NAPP222167570	3
								Job Number: 03D2057020	3
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord		2.80302,		_				Hole Diameter:	Total Depth: 4'
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respecti	
								factors included.	,
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
Υ	4030	4.6	Υ	PH03	1']	L _ 1' _	SP-SM	SAND, well graded, dark bro grained	wn, med-coarse
N	N 2934 2.5 N							SAND, dark brown, well grac grain, mixed caliche	led, mud-coarse
N ND 1.3 N T 3' CCHE								CALICHE	
N	2350	1.5	N	РН03А	4'	ССНЕ	CALICHE		
						- - - - - - -			
					- - - - -	- - - - -			
						- - - -			
					- - - -	- - - -			
					- -	- - -			

								Sample Name: PH04	Date: 10-24-2022
	7						B. 4	Site Name: EVGSAU 2801	Date: 10 2 2022
			N	3	OL	_ U	V	Incident Number: NAPP222167570)3
-								Job Number: 03D2057020	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord		2.80302, -						Hole Diameter:	Total Depth: 8'
					ith HACH Ch	loride Test S	trips and	PID for chloride and vapor, respect	·
perfor	med with	n 1:4 dilut	ion fa	actor of soi	l to distilled	water. No co	orrection 1	actors included.	·
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
Υ	10841	4.6	Υ	PH04	1' - -	L _ 1' - -	SP-SM	SAND, well graded, dark bro grained	own, med-coarse
N	3404	2.6	N		-	_ 2' _	SP-SM	SAND/ CALICHE mix, dark br well graded, mud-coarse gra	
N 2553 2 N 3' CCHE							CCHE	CALICHE	
N	N 2480 1.7 N PH04A 4' 4' CCHE						CCHE	CALICHE	
N	1204	2.2	N		- - -	- 6'	CCHE	CALICHE	
N	2385	1.9	N		- - -	- 7' -	ССНЕ	CALICHE	
N	75	0.3	N	PH04B	8' <u>-</u> -	- - - -	CCHE	CALICHE	
					- - -	- - -			
					- - -	- - -			
						- - -			
						- - -			
					-	-			

								Sample Name: PH05	Date: 10-24-2022
1					OL			Site Name: EVGSAU 2801	!
			N	3	U	_ U	V	Incident Number: NAPP22216757	03
								Job Number: 03D2057020	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord	inates: 32	2.80302,	-103.	45896				Hole Diameter:	Total Depth: 4'
								PID for chloride and vapor, respec	tively. Chloride test
perfor	med with	n 1:4 dilut	tion f	actor of soi	l to distilled	water. No co	orrection f	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
Υ	2833	1.5	Υ	PH05	1' -	L - 1' -	SP-SM	SAND, well graded, dark brograined	own, mud-coarse
N	2055	2.7	N		-	<u>2</u> '	SP-SM	SAA	
N	N 487 2.1 N SP-SM							SAA	
N	56	1	N	PH05A	4' -	- - - 4'	SP-SM	SAA	
						- - -			
					- -	- - -			
						- - -			
					- -	- - -			
						- - -			
					-	- - -			
					- - -	- -			
						- - -			
					-	- - -			
					-	-			

								Sample Name: PH06	Date: 10-25-2022
	7							Site Name: EVGSAU 2801	Date. 10-23-2022
			N	5	OL	_ U	M	Incident Number: NAPP222167570	12
			_	_	_	_	- -	Job Number: 03D2057020	,,
		LITHOL	OGI	^ / SOII S	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord	inates: 32				AIVII LIIVO	100		Hole Diameter:	Total Depth: 8'
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respect	
								actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
N	29	0.9	N	PH06	1' <u> </u>	L _ 1' - -	SP-SM	SAND, well graded, dark bro grained, some caliche	own, mud-coarse
N	24	1.3	N	PH06A	4'	- - 4'	CCHE	CALICHE	
N 18 1.7 N PH06B 8' 1 8' CCHE							ССНЕ	CALICHE	

								Sample Name: PH07	Date: 10-25-2022
1	7						B. 4	Site Name: EVGSAU 2801	
			N	3	OL	_ U	V	Incident Number: NAPP222167570	03
								Job Number: 03D2057020	
		LITHOL	OGI	C / SOIL S	AMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord	inates: 32							Hole Diameter:	Total Depth: 8'
Comm	nents: Fie	ld screen	ing co	nducted w	ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respect	ively. Chloride test
perfor	med with	n 1:4 dilut	tion f	actor of soi	l to distilled	water. No co	orrection f	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
N	36	1.8	N	PH07	1' _ 	L - 1' -	SP-SM	SAND/ CALICHE mix, well gr mud- coarse grained	aded, dark brown,
N							ССНЕ	CALICHE	
N 39 0.7 N PH07B 8'								CALICHE	

								Sample Name: PH08	Date: 10-25-2022
1	7						B. 4	Site Name: EVGSAU 2801	- 00000 - 00
			N	3	OL	_ U	V	Incident Number: NAPP222167570	03
								Job Number: 03D2057020	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coord		2.80302,						Hole Diameter:	Total Depth: 8'
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respect	ively. Chloride test
perfor	med with	n 1:4 dilut	tion f	actor of soi	l to distilled	water. No co	orrection f	factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
N	73	4.8	N	PH08	1' <u>-</u>	L _ 1' -	SP-SM	SAND, well graded, dark brograined	own, mud-coarse
N	21	3.5	N	PH08A	4'	4' 	SP-SC	SAND, tan/ brown, poorly g caliche mix	raded, some
N	N 20 1.5 N PH08B 8' + 8' CCH							CALICHE	
					-	-			
					-	<u>-</u>			
					-	-			
					-	-			
					-	<u>-</u>			
					-	- - -			
					-	- -			
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					-	-			
					-	- -			
					-	<u>-</u>			
					_	- -			
					<u> </u>	_			

								Comple Name: DUO	Data: 10.25.2022
8	7							Sample Name: PH09 Site Name: EVGSAU 2801	Date: 10-25-2022
			N	S	OL	U	M	Incident Number: NAPP222167570	12
								Job Number: 03D2057020	25
		LITHOU	OG!	r / sou s	SAMPLING	LOG		Logged By: Conner Shore	Method: Backhoe
Coordi		2.80302, -			AIVIPLIIVO	LUG		Hole Diameter:	Total Depth: 8'
					ith HΔCH Ch	Inride Test 9	Strins and	PID for chloride and vapor, respecti	· ·
								factors included.	very, emoriae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
N	36	1.1	N	PH09	1' <u>-</u>	L _ 1' _	SP-SM	SAND, well graded, dark bro grained	wn, mud-coarse
N	415	1.2	N	PH09A	4' <u>-</u>	4'	ССНЕ	CALICHE	
N	N 192 1.1 N PH09B 8' T 8' CCH							CALICHE	
					- - -	- - -			
					-	- - -			
					- - -	- - -			
					-	_ - -			
					-	_			
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					- -	- -			
					-				



APPENDIX D

NMOCD Notifications

From: OCDOnline@state.nm.us

To: <u>Kalei Jennings</u>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 140652

Date: Friday, September 9, 2022 11:40:00 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2221675703, with the following conditions:

Remediation Plan Approved.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Jennifer Nobui Environmental Specialist-Advanced 505-470-3407 Jennifer.Nobui@state.nm.us

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



APPENDIX E

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

Latitude: 32.80302

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			
<i>g</i> ,,,			
Location of Release Source			

Longitude: -103.45896

Site Name: E	ast Vacuum	Grayburg – San A	Andreas Unit #01	.0	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		

Nature and Volume of Release

	al(s) Released (Select all that apply and attach calculations or specif	
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:		
	•	orrosion, This allowed approximately 37 bbl. of sultimately covering an area of 60 ft. by 75 ft. in the

Received by OCD: 12/14/2022 7:53:02 PM State of New Mexico Page 2 Oil Conservation Division

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Page	220co	razs
1100		

Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

Contact was attempted l	by phone by calling (575) 626-0830 and I le		
1:55pm (TX) on June 12	th, 2022and made notification.		
	Initial Res	ponse	
The responsible p	party must undertake the following actions immediately u	nless they could create a safety hazard that would result in injury	
Released materials ha	s been secured to protect human health and the	es, absorbent pads, or other containment devices.	
	ecoverable materials have been removed and red above have not been undertaken, explain wh		
		een barricaded. No more fluid will spread further. The iated 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 H	Iaigood	Title: Permian HSE Specialist	
Signature: Thomas James Haigi	and .	Date: June 06, 2022	
email: Thomas.haigood @	@mavresources.com	Telephone: (432) 701-7802	
OCD Only Jocelyn Received by:	Harimon I	08/05/2022 Date:	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 131744

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	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-	8/5/2022

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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?			
Did this release impact groundwater or surface water?			
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?			
Are the lateral extents of the release within a 100-year floodplain?			
Did the release impact areas not on an exploration, development, production, or storage site?			
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.			
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.		
☐ 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			
☐ Borning of 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.

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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 II			
Signature:	Date:12/14/2022			
email: _bryce.wagoner@mavresources.com	Telephone:928-241-1862			
OCD Only				
Received by:Jocelyn Harimon	Date:12/15/2022			

	Page 224 of 225
Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
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 II Signature: Date:12/14/2022 email:bryce.wagoner@mavresources.com Telephone:928-241-1862				
OCD Only				
Received by: Date: Date:				
Approved Approved with Attached Conditions of Approval Denied Deferral Approved				
Signature: Daniser Nobili Date: 01/11/2023				

District I
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 167177

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
0,	Action Number:
Houston, TX 77002	167177
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Variance approved to collect sidewall confirmation soil samples at 400 ft2.	1/11/2023