ENSOLUM

November 1, 2022

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

Re: Remediation Work Plan
EVGSAU Satellite 5
Incident Number NAPP2213957732
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following *Remediation Work Plan* (Work Plan) to document assessment and soil sampling activities completed to date and propose additional delineation of the extent of the release at the East Vacuum Grayburg – San Andreas Unit (EVGSAU) Satellite 5 (Site), resulting from a flow line release of crude oil and produced water into the surrounding pasture. The following Work Plan proposes vertical delineation of the release.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 26, Township 17 South, Range 35 East, in Lea County, New Mexico (32.806667° N, 103.431389° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On May 5, 2022, a transfer pump leak resulted in the release of approximately 17.4 barrels (bbls) of produced water and 0.9 bbls of crude oil into the pasture where fluids pooled. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 2 bbls of produced water were recovered. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 19, 2022. The release was assigned Incident Number NAPP2213957732.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to 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 the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-04881, located approximately 0.4 miles

southwest of the Site. The groundwater well has a reported depth to groundwater of 50 feet bgs and a total depth of 137 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 2,220 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On July 27, 2022, personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven preliminary soil samples (SS01 through SS07) were collected within and around the release extent at a depth of approximately 0.5 feet bgs. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride 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 B.

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 COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS02, SS03, and SS07 indicated chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS01, SS04, SS05, and SS06 indicated concentrations of all COCs were compliant with the Site Closure Criteria. A summary of soil analtyical restults are presented in Table 1 and the full laboratory analytical report is included in Appendix C.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appear to be warranted to define the vertical extent of impacts to soil following the July 27, 2022 release.

PROPOSED REMEDIATION WORK PLAN

The results from the preliminary soil sampling suggest soil containing elevated chloride concentrations is present across portions of the 4,027 square foot release area. As such, Maverick requests approval to complete the following remediation activities:

- Complete vertical delineation of impacted soil until analytical results indicate soil beneath the release is compliant with the Site Closure Criteria. Proposed delineation points are depicted on Figure 3; however, they are representative locations and may adjust based on the situation of active subsurface utilities or above-ground pipelines/equipment that may interfere with advancement.
- Address lateral surface sample SS07 through the collection of soil samples south to define the lateral extent of impacted soil.
- Soil samples will be field screened for VOCs and chloride. Soils samples exhibiting the highest field screening concentration and deepest depth from each sample location will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- Following successful vertical delineation through laboratory analytical results, Maverick will proceed with providing NMOCD an addendum Work Plan detailing delineation results and proposing additional remedial action, if applicable, based on results of delineation activities.

Maverick will complete the delineation activities within 60 days of the date of approval of this Work Plan by the NMOCD. A Work Plan Addendum 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 19.15.29.13 NMAC and are protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this Work Plan 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

Hadlie Green
Staff Geologist

Kalei Jennings
Senior Scientist

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

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Proposed Delineation Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141

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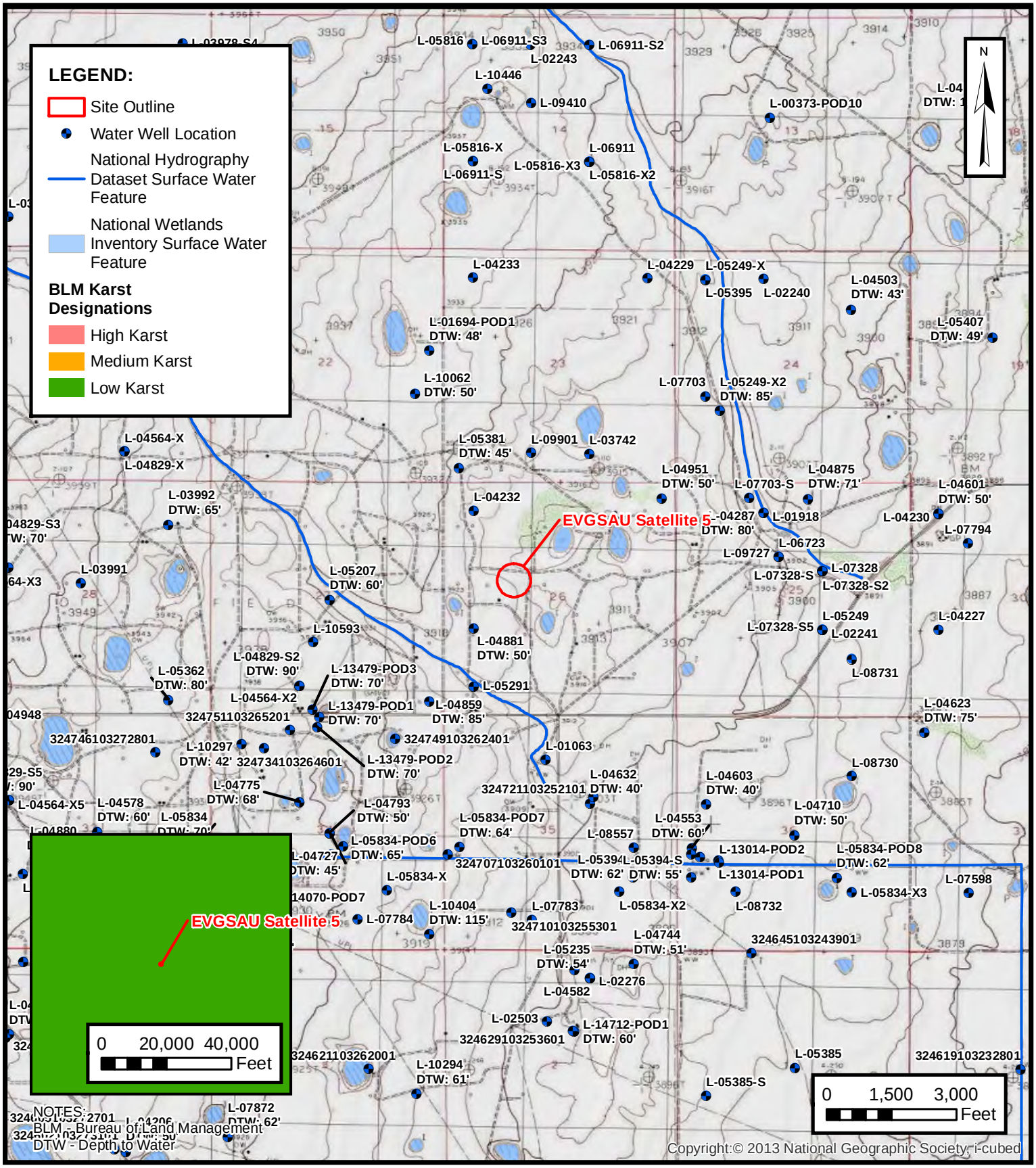
FIGURES



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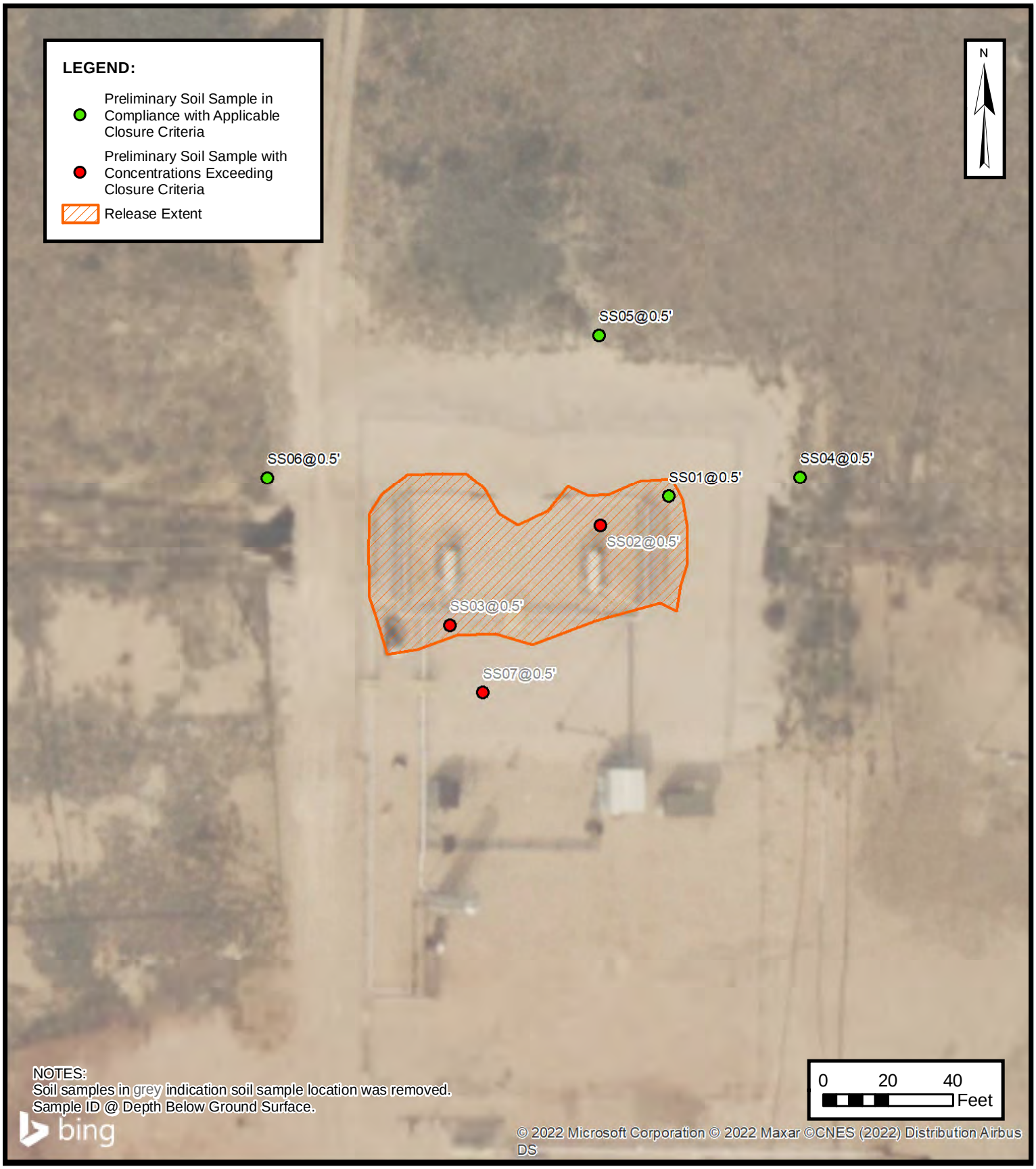
SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
EVGSAU SATELLITE 5
NAPP2213957732
Unit F, Sec 26, T17S, R35E
Lea County, New Mexico

FIGURE
1



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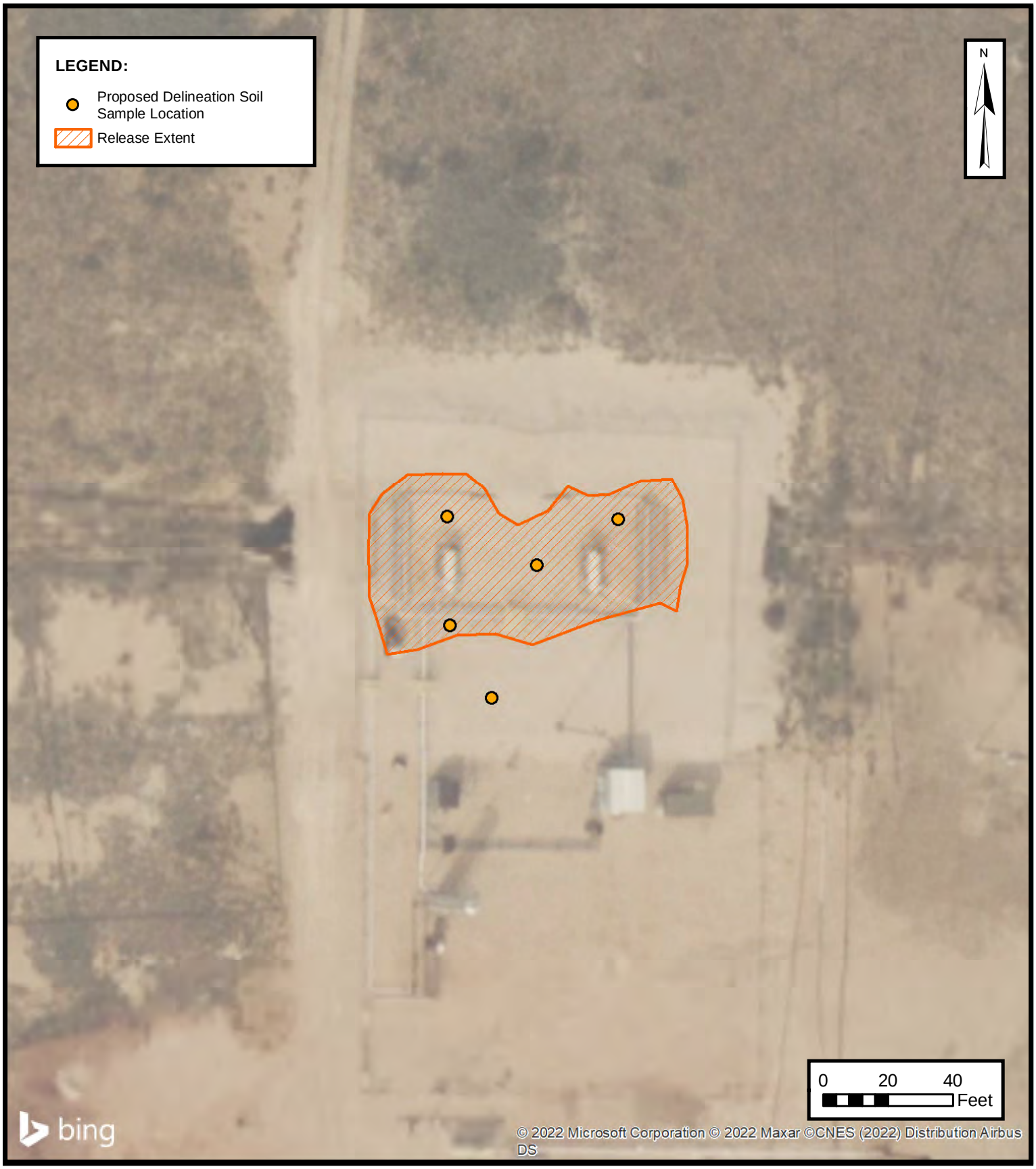
PRELIMINARY SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
EVGSAU SATELLITE 5
Incident Number
Unit F, Sec 26, T17S, R35E
Lea County, New Mexico

FIGURE

2



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PROPOSED DELINEATION SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
EVGSAU SATELLITE 5
Incident Number
Unit F, Sec 26, T17S, R35E
Lea County, New Mexico

FIGURE

3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
EVGSAU Satellite 5
Maverick Natural Resources, LLC
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
Preliminary Assessment Soil Samples										
SS01	07/27/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	456
SS02	07/27/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	**9,950**
SS03	07/27/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**8,470**
SS04	07/27/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	91
SS05	07/27/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	127
SS06	07/27/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	205
SS07	07/27/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**696**

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

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APPENDIX A

Referenced Well Records

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	L 04881		1	3	26	17S	35E	646556	3630644*

Driller License:	99	**Driller Company:**	O.R. MUSSELWHITE WATER WELL SE		
Driller Name:	O R MUSSLEWHITE				
Drill Start Date:	04/22/1962	**Drill Finish Date:**	04/24/1962	**Plug Date:**	03/01/1964
Log File Date:	02/18/1963	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.63	**Depth Well:**	137 feet	**Depth Water:**	50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	85	130	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	82	137

***UTM location was derived from PLSS - see Help**

USGS 324707103260101 17S.35E.35.31133

Lea County, New Mexico
Latitude 32°47'23", Longitude 103°26'10" NAD27
Land-surface elevation 3,915.00 feet above NGVD29
The depth of the well is 220 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

- Table of data
- Tab-separated data
- Graph of data
- Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1986-01-16		D	62610		3860.59	NGVD29	1	Z			A
1986-01-16		D	62611		3862.05	NAVD88	1	Z			A
1986-01-16		D	72019	54.41			1	Z			A
1990-12-20		D	62610		3858.02	NGVD29	1	Z			A
1990-12-20		D	62611		3859.48	NAVD88	1	Z			A
1990-12-20		D	72019	56.98			1	Z			A

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APPENDIX B

Photographic Log

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Photographic Log
Maverick Natural Resources, LLC
EVGAU Satellite 5
Incident Number NAPP2213957732

Photograph 1 Date: 7/12/2022
Description: Photo of release extent taken during initial site assessment activities.

Photograph 2 Date: 7/12/2022
Description: Photo of release extent taken during initial site assessment activities.

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APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2686-1
Laboratory Sample Delivery Group: 03D2057012
Client Project/Site: EVGSAU

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/8/2022 3:48:59 PM

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

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
Project/Site: EVGSAU

Laboratory Job ID: 890-2686-1
SDG: 03D2057012

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2686-1
Project/Site: EVGSAU SDG: 03D2057012

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Job ID: 890-2686-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2686-1

Receipt
The samples were received on 7/28/2022 1:48 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 10.4°C

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: SS01 (890-2686-1), SS02 (890-2686-2), SS03 (890-2686-3), SS04 (890-2686-4), SS05 (890-2686-5), SS06 (890-2686-6) and SS07 (890-2686-7). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis. Samples received out of temp range client notified and wanted to proceed

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-31335 and analytical batch 880-31540 recovered outside control limits for the following analytes: Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike duplicate recoveries are unavailable for preparation batch 880-31335 and analytical batch 880-31540. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: LCSD biased low. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-31569/2-A)

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-31569 and analytical batch 880-31653 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-31569 and analytical batch 880-31653 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-31569 and analytical batch 880-31653. The associated laboratory control sample (LCS) met acceptance criteria.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS04 (890-2686-4). 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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31214 and analytical batch 880-31338 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31214 and 880-31214 and analytical batch 880-31338 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Job ID: 890-2686-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31219 and analytical batch 880-31436 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS01

Lab Sample ID: 890-2686-1
Matrix: Solid
Date Collected: 07/27/22 13:00
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/02/22 14:31	08/05/22 20:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/02/22 14:31	08/05/22 20:16	1
Ethylbenzene	<0.00198	U *1	0.00198		mg/Kg		08/02/22 14:31	08/05/22 20:16	1
m-Xylene & p-Xylene	<0.00397	U *1	0.00397		mg/Kg		08/02/22 14:31	08/05/22 20:16	1
o-Xylene	<0.00198	U *1	0.00198		mg/Kg		08/02/22 14:31	08/05/22 20:16	1
Xylenes, Total	<0.00397	U *1	0.00397		mg/Kg		08/02/22 14:31	08/05/22 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/02/22 14:31*	*08/05/22 20:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/02/22 14:31*	*08/05/22 20:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/08/22 14:27	1

Method: 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			08/03/22 11:13	1

Method: 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		08/02/22 08:40	08/02/22 11:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 11:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/02/22 08:40*	*08/02/22 11:19*	*1*
o-Terphenyl	*81*		*70 - 130*	*08/02/22 08:40*	*08/02/22 11:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**456**		24.9		mg/Kg			08/04/22 15:19	5

Client Sample ID: SS02

Lab Sample ID: 890-2686-2
Matrix: Solid
Date Collected: 07/27/22 13:05
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1 F1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 15:45	1
Toluene	<0.00200	U *- *1 F1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 15:45	1
Ethylbenzene	<0.00200	U *- *1 F1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 15:45	1
m-Xylene & p-Xylene	<0.00399	U *- *1 F1	0.00399		mg/Kg		08/05/22 10:43	08/07/22 15:45	1
o-Xylene	<0.00200	U *- *1 F1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 15:45	1
Xylenes, Total	<0.00399	U *- *1 F1	0.00399		mg/Kg		08/05/22 10:43	08/07/22 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/05/22 10:43*	*08/07/22 15:45*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS02

Date Collected: 07/27/22 13:05
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Lab Sample ID: 890-2686-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/05/22 10:43*	*08/07/22 15:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/08/22 14:27	1

Method: 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			08/03/22 11:13	1

Method: 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		08/02/22 08:40	08/02/22 12:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/02/22 08:40	08/02/22 12:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/02/22 08:40	08/02/22 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*08/02/22 08:40*	*08/02/22 12:23*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/02/22 08:40*	*08/02/22 12:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9950**		100	mg/Kg			08/04/22 15:27	20

Client Sample ID: SS03

Date Collected: 07/27/22 13:10
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Lab Sample ID: 890-2686-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/05/22 10:43	08/07/22 16:12	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		08/05/22 10:43	08/07/22 16:12	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		08/05/22 10:43	08/07/22 16:12	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		08/05/22 10:43	08/07/22 16:12	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		08/05/22 10:43	08/07/22 16:12	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		08/05/22 10:43	08/07/22 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/05/22 10:43*	*08/07/22 16:12*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/05/22 10:43*	*08/07/22 16:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/22 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/03/22 11:13	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS03

Lab Sample ID: 890-2686-3
Matrix: Solid
Date Collected: 07/27/22 13:10
Date Received: 07/28/22 13:48
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*08/02/22 08:40*	*08/02/22 12:44*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/02/22 08:40*	*08/02/22 12:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8470**		101		mg/Kg			08/04/22 15:35	20

Client Sample ID: SS04

Lab Sample ID: 890-2686-4
Matrix: Solid
Date Collected: 07/27/22 13:15
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199		mg/Kg		08/05/22 10:43	08/07/22 16:38	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		08/05/22 10:43	08/07/22 16:38	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		08/05/22 10:43	08/07/22 16:38	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		08/05/22 10:43	08/07/22 16:38	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		08/05/22 10:43	08/07/22 16:38	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		08/05/22 10:43	08/07/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/05/22 10:43*	*08/07/22 16:38*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/05/22 10:43*	*08/07/22 16:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/03/22 11:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/02/22 08:40	08/02/22 13:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/22 08:40	08/02/22 13:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/22 08:40	08/02/22 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*08/02/22 08:40*	*08/02/22 13:05*	*1*
o-Terphenyl	*75*		*70 - 130*	*08/02/22 08:40*	*08/02/22 13:05*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS04

Lab Sample ID: 890-2686-4
Matrix: Solid
Date Collected: 07/27/22 13:15
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.5		4.98		mg/Kg			08/04/22 15:43	1

Client Sample ID: SS05

Lab Sample ID: 890-2686-5
Matrix: Solid
Date Collected: 07/27/22 13:20
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:05	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:05	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:05	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		08/05/22 10:43	08/07/22 17:05	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:05	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		08/05/22 10:43	08/07/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/05/22 10:43*	*08/07/22 17:05*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/05/22 10:43*	*08/07/22 17:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/03/22 11:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 13:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 13:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*08/02/22 08:40*	*08/02/22 13:26*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/02/22 08:40*	*08/02/22 13:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.01		mg/Kg			08/04/22 15:50	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS06

Lab Sample ID: 890-2686-6
Matrix: Solid
Date Collected: 07/27/22 13:25
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		08/05/22 10:43	08/07/22 17:31	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		08/05/22 10:43	08/07/22 17:31	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		08/05/22 10:43	08/07/22 17:31	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		08/05/22 10:43	08/07/22 17:31	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		08/05/22 10:43	08/07/22 17:31	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		08/05/22 10:43	08/07/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/05/22 10:43*	*08/07/22 17:31*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/05/22 10:43*	*08/07/22 17:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/03/22 11:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/02/22 08:40	08/02/22 13:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/22 08:40	08/02/22 13:47	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/22 08:40	08/02/22 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*08/02/22 08:40*	*08/02/22 13:47*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/02/22 08:40*	*08/02/22 13:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		4.96		mg/Kg			08/03/22 12:09	1

Client Sample ID: SS07

Lab Sample ID: 890-2686-7
Matrix: Solid
Date Collected: 07/27/22 13:30
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:58	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:58	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:58	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401		mg/Kg		08/05/22 10:43	08/07/22 17:58	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		08/05/22 10:43	08/07/22 17:58	1
Xylenes, Total	<0.00401	U *- *1	0.00401		mg/Kg		08/05/22 10:43	08/07/22 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/05/22 10:43*	*08/07/22 17:58*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS07
Date Collected: 07/27/22 13:30
Date Received: 07/28/22 13:48
Sample Depth: 0.5

Lab Sample ID: 890-2686-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/05/22 10:43*	*08/07/22 17:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/22 14:27	1

Method: 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			08/03/22 11:13	1

Method: 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		08/02/22 08:40	08/02/22 14:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 14:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*08/02/22 08:40*	*08/02/22 14:09*	*1*
o-Terphenyl	*84*		*70 - 130*	*08/02/22 08:40*	*08/02/22 14:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**696**		4.95		mg/Kg			08/03/22 12:40	1

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2645-A-1-G MS	Matrix Spike	107	99
890-2645-A-1-H MSD	Matrix Spike Duplicate	102	86
890-2686-1	SS01	114	93
890-2686-2	SS02	124	82
890-2686-2 MS	SS02	122	87
890-2686-2 MSD	SS02	85	83
890-2686-3	SS03	122	81
890-2686-4	SS04	116	90
890-2686-5	SS05	121	90
890-2686-6	SS06	117	88
890-2686-7	SS07	120	91
890-2689-A-2-G MS	Matrix Spike	124	98
890-2689-A-2-H MSD	Matrix Spike Duplicate	112	93
LCS 880-31335/1-A	Lab Control Sample	116	100
LCS 880-31569/1-A	Lab Control Sample	123	89
LCS 880-31573/1-A	Lab Control Sample	106	90
LCSD 880-31335/2-A	Lab Control Sample Dup	106	98
LCSD 880-31569/2-A	Lab Control Sample Dup	118	95
LCSD 880-31573/2-A	Lab Control Sample Dup	112	94
MB 880-31335/5-A	Method Blank	99	89
MB 880-31569/5-A	Method Blank	90	78
MB 880-31573/5-A	Method Blank	101	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2686-1	SS01	74	81
890-2686-1 MS	SS01	97	97
890-2686-1 MSD	SS01	84	82
890-2686-2	SS02	75	82
890-2686-3	SS03	72	80
890-2686-4	SS04	69 S1-	75
890-2686-5	SS05	75	82
890-2686-6	SS06	75	83
890-2686-7	SS07	75	84
LCS 880-31286/2-A	Lab Control Sample	104	102
LCSD 880-31286/3-A	Lab Control Sample Dup	104	108
MB 880-31286/1-A	Method Blank	90	103

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31335/5-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31335

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 14:31	08/05/22 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/02/22 14:31*	*08/05/22 11:25*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/02/22 14:31*	*08/05/22 11:25*	*1*

Lab Sample ID: LCS 880-31335/1-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31335

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1114		mg/Kg		111	70 - 130		
Toluene			0.100	0.1046		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1239		mg/Kg		124	70 - 130		
m-Xylene & p-Xylene			0.200	0.2398		mg/Kg		120	70 - 130		
o-Xylene			0.100	0.1296		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-31335/2-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31335

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08982		mg/Kg		90	70 - 130	21	35
Toluene			0.100	0.08489		mg/Kg		85	70 - 130	21	35
Ethylbenzene			0.100	0.08074	*1	mg/Kg		81	70 - 130	42	35
m-Xylene & p-Xylene			0.200	0.1641	*1	mg/Kg		82	70 - 130	38	35
o-Xylene			0.100	0.09044	*1	mg/Kg		90	70 - 130	36	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-2645-A-1-G MS
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1	0.101	0.1014		mg/Kg		101	70 - 130		
Toluene	<0.00202	U F1	0.101	0.09230		mg/Kg		91	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Lab Sample ID: 890-2645-A-1-G MS
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U *1 F1	0.101	0.08894		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00403	U *1 F1	0.201	0.1784		mg/Kg		87	70 - 130
o-Xylene	0.00264	*1 F1	0.101	0.09574		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2645-A-1-H MSD
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00202	U F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00202	U *1 F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00403	U *1 F1	0.200	<0.00399	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	0.00264	*1 F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: MB 880-31569/5-A
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31569

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 10:43	08/07/22 15:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 10:43	08/07/22 15:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 10:43	08/07/22 15:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/05/22 10:43	08/07/22 15:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 10:43	08/07/22 15:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/05/22 10:43	08/07/22 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/05/22 10:43*	*08/07/22 15:18*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/05/22 10:43*	*08/07/22 15:18*	*1*

Lab Sample ID: LCS 880-31569/1-A
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08998		mg/Kg		90	70 - 130
Toluene	0.100	0.09347		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09527		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1947		mg/Kg		97	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Lab Sample ID: LCS 880-31569/1-A
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31569

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1030		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-31569/2-A
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31569

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.01251	*- *1	mg/Kg		13	70 - 130	151	35
Toluene			0.100	0.01494	*- *1	mg/Kg		15	70 - 130	145	35
Ethylbenzene			0.100	0.01482	*- *1	mg/Kg		15	70 - 130	146	35
m-Xylene & p-Xylene			0.200	0.02999	*- *1	mg/Kg		15	70 - 130	147	35
o-Xylene			0.100	0.01531	*- *1	mg/Kg		15	70 - 130	148	35

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

Lab Sample ID: 890-2686-2 MS
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: SS02
Prep Type: Total/NA
Prep Batch: 31569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U *- *1 F1	0.101	0.08135		mg/Kg		81	70 - 130		
Toluene	<0.00200	U *- *1 F1	0.101	0.07032		mg/Kg		70	70 - 130		
Ethylbenzene	<0.00200	U *- *1 F1	0.101	0.06003	F1	mg/Kg		60	70 - 130		
m-Xylene & p-Xylene	<0.00399	U *- *1 F1	0.201	0.1175	F1	mg/Kg		58	70 - 130		
o-Xylene	<0.00200	U *- *1 F1	0.101	0.06370	F1	mg/Kg		63	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-2686-2 MSD
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: SS02
Prep Type: Total/NA
Prep Batch: 31569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *- *1 F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00200	U *- *1 F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U *- *1 F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00399	U *- *1 F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U *- *1 F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Lab Sample ID: 890-2686-2 MSD
Matrix: Solid
Analysis Batch: 31653

Client Sample ID: SS02
Prep Type: Total/NA
Prep Batch: 31569

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: MB 880-31573/5-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31573

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 11:19	08/06/22 00:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/05/22 11:19	08/06/22 00:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/05/22 11:19	08/06/22 00:00	1

Lab Sample ID: LCS 880-31573/1-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31573

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09897		mg/Kg		99	70 - 130		
Toluene			0.100	0.1022		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1050		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2137		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1208		mg/Kg		121	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-31573/2-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31573

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09262		mg/Kg		93	70 - 130	7	35
Toluene			0.100	0.09534		mg/Kg		95	70 - 130	7	35
Ethylbenzene			0.100	0.1047		mg/Kg		105	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2146		mg/Kg		107	70 - 130	0	35
o-Xylene			0.100	0.1189		mg/Kg		119	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Lab Sample ID: LCSD 880-31573/2-A
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31573

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

Lab Sample ID: 890-2689-A-2-G MS
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.09178		mg/Kg		91	70 - 130
Toluene	<0.00200	U	0.101	0.1004		mg/Kg		100	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.1071		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.2218		mg/Kg		110	70 - 130
o-Xylene	<0.00200	U	0.101	0.1258		mg/Kg		125	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2689-A-2-H MSD
Matrix: Solid
Analysis Batch: 31540

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.08524		mg/Kg		85	70 - 130	7	35
Toluene	<0.00200	U	0.0998	0.08780		mg/Kg		88	70 - 130	13	35
Ethylbenzene	<0.00200	U	0.0998	0.08996		mg/Kg		90	70 - 130	17	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1787		mg/Kg		90	70 - 130	22	35
o-Xylene	<0.00200	U	0.0998	0.1036		mg/Kg		104	70 - 130	19	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-31286/1-A
Matrix: Solid
Analysis Batch: 31239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31286

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/02/22 08:40	08/02/22 10:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/02/22 08:40	08/02/22 10:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/02/22 08:40	08/02/22 10:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/02/22 08:40	08/02/22 10:16	1
o-Terphenyl	103		70 - 130	08/02/22 08:40	08/02/22 10:16	1

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Lab Sample ID: LCS 880-31286/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31239 — **Prep Batch: 31286**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1060		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1036		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: LCSD 880-31286/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31239 — **Prep Batch: 31286**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1063		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1092		mg/Kg		109	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-2686-1 MS — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31239 — **Prep Batch: 31286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	941.9		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	802.5		mg/Kg		80	70 - 130		

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

Lab Sample ID: 890-2686-1 MSD — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31239 — **Prep Batch: 31286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	829.1		mg/Kg		83	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	700.8		mg/Kg		70	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Lab Sample ID: 890-2686-1 MSD
Matrix: Solid
Analysis Batch: 31239

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 31286

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*82*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31214/1-A
Matrix: Solid
Analysis Batch: 31338

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/03/22 09:56	1

Lab Sample ID: LCS 880-31214/2-A
Matrix: Solid
Analysis Batch: 31338

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.9		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-31214/3-A
Matrix: Solid
Analysis Batch: 31338

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	273.1		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-17520-A-21-E MS
Matrix: Solid
Analysis Batch: 31338

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.9	F1 F2	250	268.5		mg/Kg		99	90 - 110		

Lab Sample ID: 880-17520-A-21-F MSD
Matrix: Solid
Analysis Batch: 31338

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.9	F1 F2	250	204.1	F1 F2	mg/Kg		73	90 - 110	27	20

Lab Sample ID: 880-17588-A-1-D MS
Matrix: Solid
Analysis Batch: 31338

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	14900	F1	12500	36280	F1	mg/Kg		171	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17588-A-1-E MSD
Matrix: Solid
Analysis Batch: 31338

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14900	F1	12500	36230	F1	mg/Kg		171	90 - 110	0	20

Lab Sample ID: MB 880-31219/1-A
Matrix: Solid
Analysis Batch: 31436

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/04/22 08:50	1

Lab Sample ID: LCS 880-31219/2-A
Matrix: Solid
Analysis Batch: 31436

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	266.3		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-31219/3-A
Matrix: Solid
Analysis Batch: 31436

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.4		mg/Kg		95	90 - 110	12	20

Lab Sample ID: 890-2682-A-6-E MS
Matrix: Solid
Analysis Batch: 31436

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	765	F1	252	1167	F1	mg/Kg		160	90 - 110		

Lab Sample ID: 890-2682-A-6-F MSD
Matrix: Solid
Analysis Batch: 31436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	765	F1	252	980.9	F1	mg/Kg		86	90 - 110	17	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

GC VOA

Prep Batch: 31335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Total/NA	Solid	5035	
MB 880-31335/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31335/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31335/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2645-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2645-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Total/NA	Solid	8021B	31335
MB 880-31335/5-A	Method Blank	Total/NA	Solid	8021B	31335
MB 880-31573/5-A	Method Blank	Total/NA	Solid	8021B	31573
LCS 880-31335/1-A	Lab Control Sample	Total/NA	Solid	8021B	31335
LCS 880-31573/1-A	Lab Control Sample	Total/NA	Solid	8021B	31573
LCSD 880-31335/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31335
LCSD 880-31573/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31573
890-2645-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	31335
890-2645-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31335
890-2689-A-2-G MS	Matrix Spike	Total/NA	Solid	8021B	31573
890-2689-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31573

Prep Batch: 31569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-2	SS02	Total/NA	Solid	5035	
890-2686-3	SS03	Total/NA	Solid	5035	
890-2686-4	SS04	Total/NA	Solid	5035	
890-2686-5	SS05	Total/NA	Solid	5035	
890-2686-6	SS06	Total/NA	Solid	5035	
890-2686-7	SS07	Total/NA	Solid	5035	
MB 880-31569/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31569/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31569/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2686-2 MS	SS02	Total/NA	Solid	5035	
890-2686-2 MSD	SS02	Total/NA	Solid	5035	

Prep Batch: 31573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31573/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31573/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31573/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-A-2-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2689-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-2	SS02	Total/NA	Solid	8021B	31569
890-2686-3	SS03	Total/NA	Solid	8021B	31569
890-2686-4	SS04	Total/NA	Solid	8021B	31569
890-2686-5	SS05	Total/NA	Solid	8021B	31569
890-2686-6	SS06	Total/NA	Solid	8021B	31569
890-2686-7	SS07	Total/NA	Solid	8021B	31569

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

GC VOA (Continued)

Analysis Batch: 31653 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31569/5-A	Method Blank	Total/NA	Solid	8021B	31569
LCS 880-31569/1-A	Lab Control Sample	Total/NA	Solid	8021B	31569
LCSD 880-31569/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31569
890-2686-2 MS	SS02	Total/NA	Solid	8021B	31569
890-2686-2 MSD	SS02	Total/NA	Solid	8021B	31569

Analysis Batch: 31778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Total/NA	Solid	Total BTEX	
890-2686-2	SS02	Total/NA	Solid	Total BTEX	
890-2686-3	SS03	Total/NA	Solid	Total BTEX	
890-2686-4	SS04	Total/NA	Solid	Total BTEX	
890-2686-5	SS05	Total/NA	Solid	Total BTEX	
890-2686-6	SS06	Total/NA	Solid	Total BTEX	
890-2686-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 31239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Total/NA	Solid	8015B NM	31286
890-2686-2	SS02	Total/NA	Solid	8015B NM	31286
890-2686-3	SS03	Total/NA	Solid	8015B NM	31286
890-2686-4	SS04	Total/NA	Solid	8015B NM	31286
890-2686-5	SS05	Total/NA	Solid	8015B NM	31286
890-2686-6	SS06	Total/NA	Solid	8015B NM	31286
890-2686-7	SS07	Total/NA	Solid	8015B NM	31286
MB 880-31286/1-A	Method Blank	Total/NA	Solid	8015B NM	31286
LCS 880-31286/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31286
LCSD 880-31286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31286
890-2686-1 MS	SS01	Total/NA	Solid	8015B NM	31286
890-2686-1 MSD	SS01	Total/NA	Solid	8015B NM	31286

Prep Batch: 31286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Total/NA	Solid	8015NM Prep	
890-2686-2	SS02	Total/NA	Solid	8015NM Prep	
890-2686-3	SS03	Total/NA	Solid	8015NM Prep	
890-2686-4	SS04	Total/NA	Solid	8015NM Prep	
890-2686-5	SS05	Total/NA	Solid	8015NM Prep	
890-2686-6	SS06	Total/NA	Solid	8015NM Prep	
890-2686-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-31286/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31286/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2686-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-2686-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

GC Semi VOA (Continued)

Analysis Batch: 31399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-2	SS02	Total/NA	Solid	8015 NM	
890-2686-3	SS03	Total/NA	Solid	8015 NM	
890-2686-4	SS04	Total/NA	Solid	8015 NM	
890-2686-5	SS05	Total/NA	Solid	8015 NM	
890-2686-6	SS06	Total/NA	Solid	8015 NM	
890-2686-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-6	SS06	Soluble	Solid	DI Leach	
890-2686-7	SS07	Soluble	Solid	DI Leach	
MB 880-31214/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31214/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31214/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17520-A-21-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17520-A-21-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-17588-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17588-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 31219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Soluble	Solid	DI Leach	
890-2686-2	SS02	Soluble	Solid	DI Leach	
890-2686-3	SS03	Soluble	Solid	DI Leach	
890-2686-4	SS04	Soluble	Solid	DI Leach	
890-2686-5	SS05	Soluble	Solid	DI Leach	
MB 880-31219/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31219/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31219/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2682-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2682-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-6	SS06	Soluble	Solid	300.0	31214
890-2686-7	SS07	Soluble	Solid	300.0	31214
MB 880-31214/1-A	Method Blank	Soluble	Solid	300.0	31214
LCS 880-31214/2-A	Lab Control Sample	Soluble	Solid	300.0	31214
LCSD 880-31214/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31214
880-17520-A-21-E MS	Matrix Spike	Soluble	Solid	300.0	31214
880-17520-A-21-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31214
880-17588-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	31214
880-17588-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31214

Analysis Batch: 31436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-1	SS01	Soluble	Solid	300.0	31219
890-2686-2	SS02	Soluble	Solid	300.0	31219
890-2686-3	SS03	Soluble	Solid	300.0	31219

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

HPLC/IC (Continued)

Analysis Batch: 31436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2686-4	SS04	Soluble	Solid	300.0	31219
890-2686-5	SS05	Soluble	Solid	300.0	31219
MB 880-31219/1-A	Method Blank	Soluble	Solid	300.0	31219
LCS 880-31219/2-A	Lab Control Sample	Soluble	Solid	300.0	31219
LCSD 880-31219/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31219
890-2682-A-6-E MS	Matrix Spike	Soluble	Solid	300.0	31219
890-2682-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31219

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS01

Date Collected: 07/27/22 13:00
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	31335	08/02/22 14:31	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/05/22 20:16	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 11:19	SM	EETSC MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31219	08/01/22 16:08	SMC	EETSC MID
Soluble	Analysis	300.0		5			31436	08/04/22 15:19	CH	EETSC MID

Client Sample ID: SS02

Date Collected: 07/27/22 13:05
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31569	08/05/22 10:43	MR	EETSC MID
Total/NA	Analysis	8021B		1			31653	08/07/22 15:45	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 12:23	SM	EETSC MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31219	08/01/22 16:08	SMC	EETSC MID
Soluble	Analysis	300.0		20			31436	08/04/22 15:27	CH	EETSC MID

Client Sample ID: SS03

Date Collected: 07/27/22 13:10
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31569	08/05/22 10:43	MR	EETSC MID
Total/NA	Analysis	8021B		1			31653	08/07/22 16:12	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 12:44	SM	EETSC MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31219	08/01/22 16:08	SMC	EETSC MID
Soluble	Analysis	300.0		20			31436	08/04/22 15:35	CH	EETSC MID

Client Sample ID: SS04

Date Collected: 07/27/22 13:15
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31569	08/05/22 10:43	MR	EETSC MID
Total/NA	Analysis	8021B		1			31653	08/07/22 16:38	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS04

Date Collected: 07/27/22 13:15
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 13:05	SM	EETSC MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31219	08/01/22 16:08	SMC	EETSC MID
Soluble	Analysis	300.0		1			31436	08/04/22 15:43	CH	EETSC MID

Client Sample ID: SS05

Date Collected: 07/27/22 13:20
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31569	08/05/22 10:43	MR	EETSC MID
Total/NA	Analysis	8021B		1			31653	08/07/22 17:05	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 13:26	SM	EETSC MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31219	08/01/22 16:08	SMC	EETSC MID
Soluble	Analysis	300.0		1			31436	08/04/22 15:50	CH	EETSC MID

Client Sample ID: SS06

Date Collected: 07/27/22 13:25
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31569	08/05/22 10:43	MR	EETSC MID
Total/NA	Analysis	8021B		1			31653	08/07/22 17:31	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 13:47	SM	EETSC MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31214	08/02/22 12:00	SMC	EETSC MID
Soluble	Analysis	300.0		1			31338	08/03/22 12:09	CH	EETSC MID

Client Sample ID: SS07

Date Collected: 07/27/22 13:30
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31569	08/05/22 10:43	MR	EETSC MID
Total/NA	Analysis	8021B		1			31653	08/07/22 17:58	MR	EETSC MID
Total/NA	Analysis	Total BTEX		1			31778	08/08/22 14:27	SM	EETSC MID
Total/NA	Analysis	8015 NM		1			31399	08/03/22 11:13	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31286	08/02/22 08:40	DM	EETSC MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 14:09	SM	EETSC MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Client Sample ID: SS07

Date Collected: 07/27/22 13:30
Date Received: 07/28/22 13:48

Lab Sample ID: 890-2686-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	31214	08/02/22 12:00	SMC	EETSC MID
Soluble	Analysis	300.0		1			31338	08/03/22 12:40	CH	EETSC MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

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

Method Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
300.0	Anions, Ion Chromatography	MCAWW	EETSC MID
5035	Closed System Purge and Trap	SW846	EETSC MID
8015NM Prep	Microextraction	SW846	EETSC MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EETSC 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:

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

Sample Summary

Client: Ensolum
Project/Site: EVGSAU

Job ID: 890-2686-1
SDG: 03D2057012

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2686-1	SS01	Solid	07/27/22 13:00	07/28/22 13:48	0.5
890-2686-2	SS02	Solid	07/27/22 13:05	07/28/22 13:48	0.5
890-2686-3	SS03	Solid	07/27/22 13:10	07/28/22 13:48	0.5
890-2686-4	SS04	Solid	07/27/22 13:15	07/28/22 13:48	0.5
890-2686-5	SS05	Solid	07/27/22 13:20	07/28/22 13:48	0.5
890-2686-6	SS06	Solid	07/27/22 13:25	07/28/22 13:48	0.5
890-2686-7	SS07	Solid	07/27/22 13:30	07/28/22 13:48	0.5

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	303-887-2946	Email:	

Work Order Comments

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

Project Name:	EVGSAU	Turn Around	
Project Number:	03D2057012	☑ Routine ☐ Rush	
Project Location:	32.8066, 103.4313	Due Date:	
Sampler's Name:	Kase Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	THM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	10.6
Total Containers:		Corrected Temperature:	10.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS01	S	7/27/2022	13:00	0.5				x	x	x
SS02	S	7/27/2022	13:05	0.5				x	x	x
SS03	S	7/27/2022	13:10	0.5				x	x	x
SS04	S	7/27/2022	13:15	0.5				x	x	x
SS05	S	7/27/2022	13:20	0.5				x	x	x
SS06	S	7/27/2022	13:25	0.5				x	x	x
SS07	S	7/27/2022	13:30	0.5				x	x	x

Sample Comments

Incident ID:
NAPP2213957732
Cost Center:
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7.28.22 1345			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2686-1
SDG Number: 03D2057012

Login Number: 2686
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2686-1
SDG Number: 03D2057012

Login Number: 2686
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/01/22 08:22 AM

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

ENSOLUM

APPENDIX D

NMOCD Notifications

From: Nobui, Jennifer, EMNRD
To: Kalei Jennings
Cc: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject: FW: [EXTERNAL] Maverick- Sampling Notification (Week of 07/11/22-07/15/22)
Date: Friday, July 8, 2022 9:33:10 AM
Attachments: image001.png
image002.png
image003.png
image004.png

[**EXTERNAL EMAIL**]

Kalei

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Friday, July 8, 2022 8:13 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Maverick- Sampling Notification (Week of 07/11/22-07/15/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, July 7, 2022 2:19 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 07/11/22-07/15/22)

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

All,

Maverick Natural Resources plans to complete final sampling activities at the following sites the week of July 11, 2022.

Monday:

Tuesday:

- EVGSAU Satellite 5 / NAPP2213957732

Wednesday:

Thursday:

- MCA 417 / NAPP2204841206

Friday:

Thank you,

Kalei Jennings
Senior Scientist
817-683-2503
Ensolum, LLC

ENSOLUM

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

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	NAPP2213957732
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2213957732
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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 _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

L48 Spill Volume Estimate Form

NAPP2213957732

umber:	EVGSAU SATELLITE 5
Asset Area:	SENM (Buckeye)
Release Discovery Date & Time:	5/5/2022
Release Type:	Oil Mixture
Provide any known details about the event:	COMING INTO WORK MY ROUTE PARTNER SMELLED OIL AND DROVE BY SATELLITE 5 AND FOUND TRANFER PUMP LEAKING . RECOVERED 2 BBLS .

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	On Pad - 10.5%; Off Pad - 15.12% soil spilled-fluid saturation factor
Has it rained at least a half inch in the last 24 hours?	Yes, On Pad - 8%; Off Pad - 13.57% soil spilled-fluid saturation factor; if No, use factors above.

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	25.0	50.0	2.00	10.50%	37.083	3.894	5.00%	0.195	3.699
Rectangle B	60.0	40.0	3.00	13.50%	106.800	14.418	5.00%	0.721	13.697
Rectangle C					0.000	0.000		0.000	0.000
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
					0.000	0.000		0.000	0.000
					Total Volume Release:	18.312		0.916	17.396

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 108869
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/19/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2213957732
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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2213957732
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: _HSE Specialist_____

Signature:_____ Date: __11/01/2022_____

email: _bryce.wagoner@mavresources.com _____ Telephone: ___928-241-1862_____

OCD Only

Received by: __Jocelyn Harimon_____ Date: __11/02/2022____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2213957732
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)

Deferral Requests Only: ***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 _____

Signature: _____ Date: __11/01/2022_____

email: __bryce.wagoner@mavresources.com_____ Telephone: __928-241-1862_____

OCD Only

Received by: Jocelyn Harimon Date: 11/02/2022

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 11/29/2022

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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 155449

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 155449
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	11/29/2022