ENSOLUM

August 26, 2022

District 1
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Request
EVGSAU 3202-385
Incident Number NAPP2207331663
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the EVGSAU 3202-385 (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2207331663.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (32.788333° N, 103.47861° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On February 27, 2022, a flowline failure resulted in the release of approximately 4.1 barrels (bbls) of produced water and 0.9 bbls of crude oil onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 1.64 bbls of produced water and 0.36 bbls of crude oil 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 March 14, 2022. The release was assigned Incident Number NAPP2207331663.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-04829-S, located

approximately 0.19 miles southeast of the Site. The well was converted into a production well and not a water well. The groundwater well has a reported depth to groundwater of 85 feet bgs and a total depth of 198 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1,123 feet southwest 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 1 Closure Criteria (Closure Criteria) apply:

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

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 26, 2022, Ensolum personnel were at the Site to complete site assessment and delineation activities based on information provided on the Form C-141 and visible surface staining observed in the release area. Five preliminary assesment soil samples (SS01 through SS05) were collected within the release extent at a depth of 0.2 feet bgs to assess for the presence or absence of impacted soil. Additionally, six lateral delineation soil samples (SS06 through SS11) were collected around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Soil samples were field screened for volatile aromatic hydrocarbons 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 each Site visit and a photographic log is included in Appendix C.

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

Laboratory analytical results for preliminary assessment soil samples SS01, SS02, SS04, and SS05 indicated TPH-GRO/TPH-DRO and/or TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil sample SS03 indicated concentrations of all chemicals of concern (COCs) were compliant with the Site Closure Criteria. Laboratory analytical results for lateral delineation soil samples SS06 through SS011 indicated concentrations of all COC were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria and successfully define the lateral extent of the release.

Based on visible staining in the release area and laboratory analytical results for preliminary soil samples SS01, SS02, SS04, and SS05, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between August 3 and 11, 2022, Ensolum personnel were at the Site to oversee excavation activities based on visible staining in the release area and laboratory analytical results for preliminary assessment soil samples SS01, SS02, SS04, and SS05. Excavation activities were performed via hand shoveling and hydrovac. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons and chloride.

Following the excavation activities, 5-point composite samples were collected from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07 were collected from the floor of the excavation at a depth of 0.5 feet bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor samples. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. A photographic log of the excavation is included as Appendix C.

Laboratory analytical results for excavation soil samples FS01 through FS07, collected from the final excavation extent, indicated concentrations of all COCs were compliant with the Site Closure Criteria. Laboratory analytical reports are included as Appendix D.

The excavation measured approximately 1,371 square feet in areal extent. A total of approximately 25 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 27, 2022, release of produced water and crude oil. Laboratory analytical results for the excavation soil samples indicated concentrations of all COCs were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation was required. Maverick will backfill the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be between 51 feet and 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2207331663. NMOCD notifications are included as Appendix E.

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

Sincerely,
Ensolum, LLC

Kalei Jennings
Senior Scientist

Daniel, R. Moir, PG
Senior Managing Geologist

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

Attachments:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Final C-141
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports
Appendix E	NMOCD Notifications

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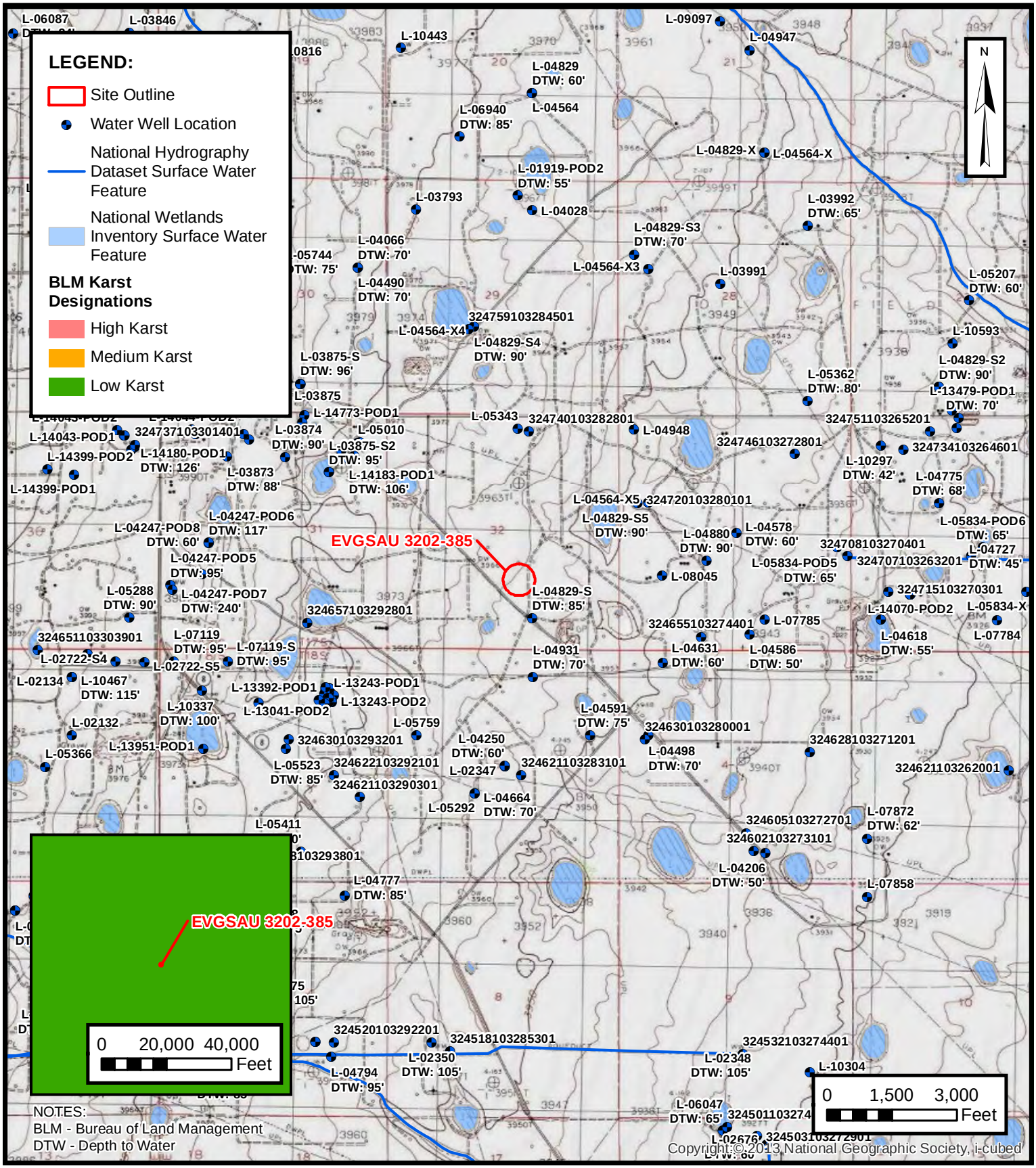
FIGURES



NOTES:
BLM - Bureau of Land Management
DTW - Depth to Water

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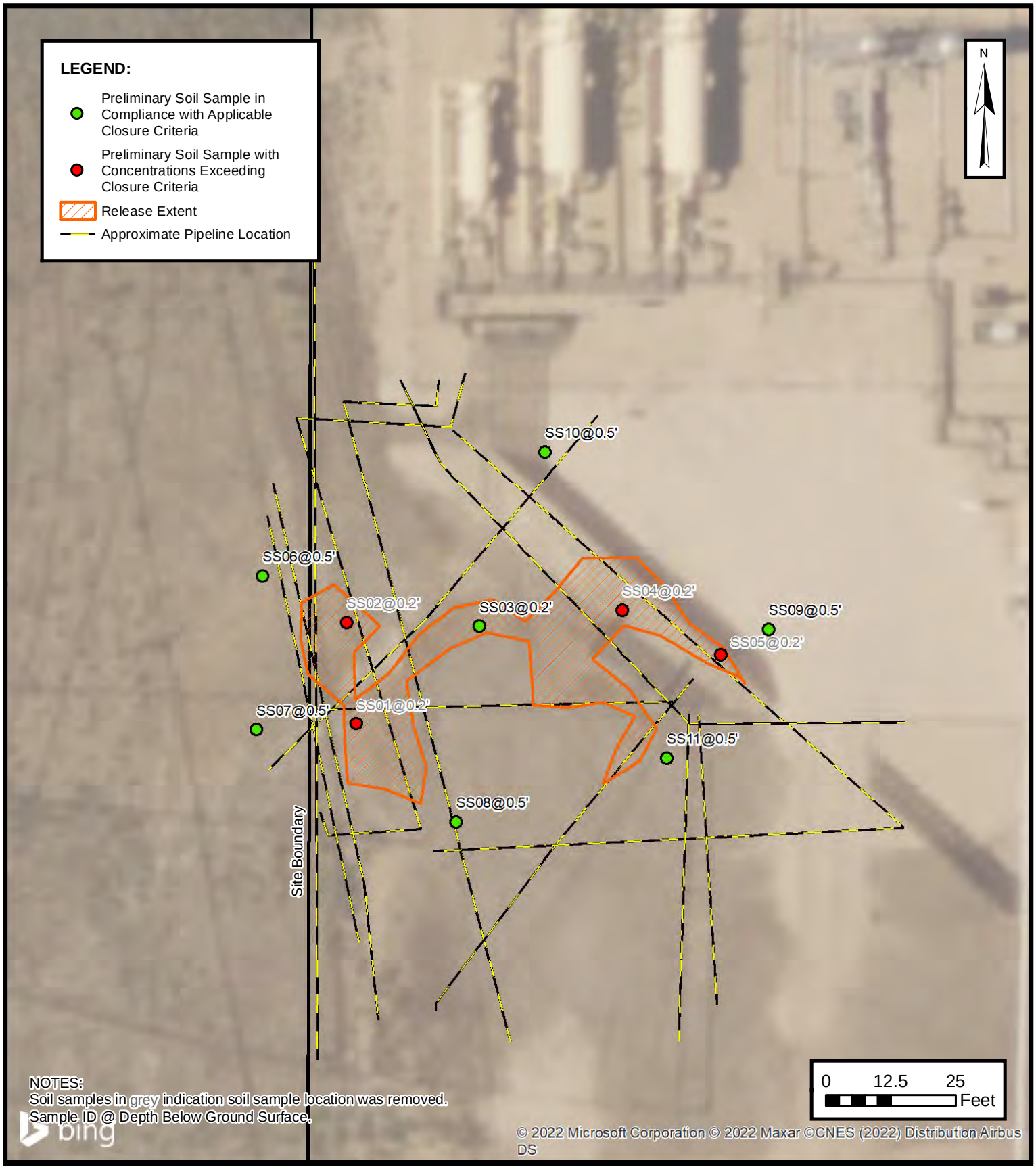
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
EVGSAU 3202-385
NAPP2207331663
Unit J, Sec 32, T17S, R35E
Lea County, New Mexico

FIGURE
1



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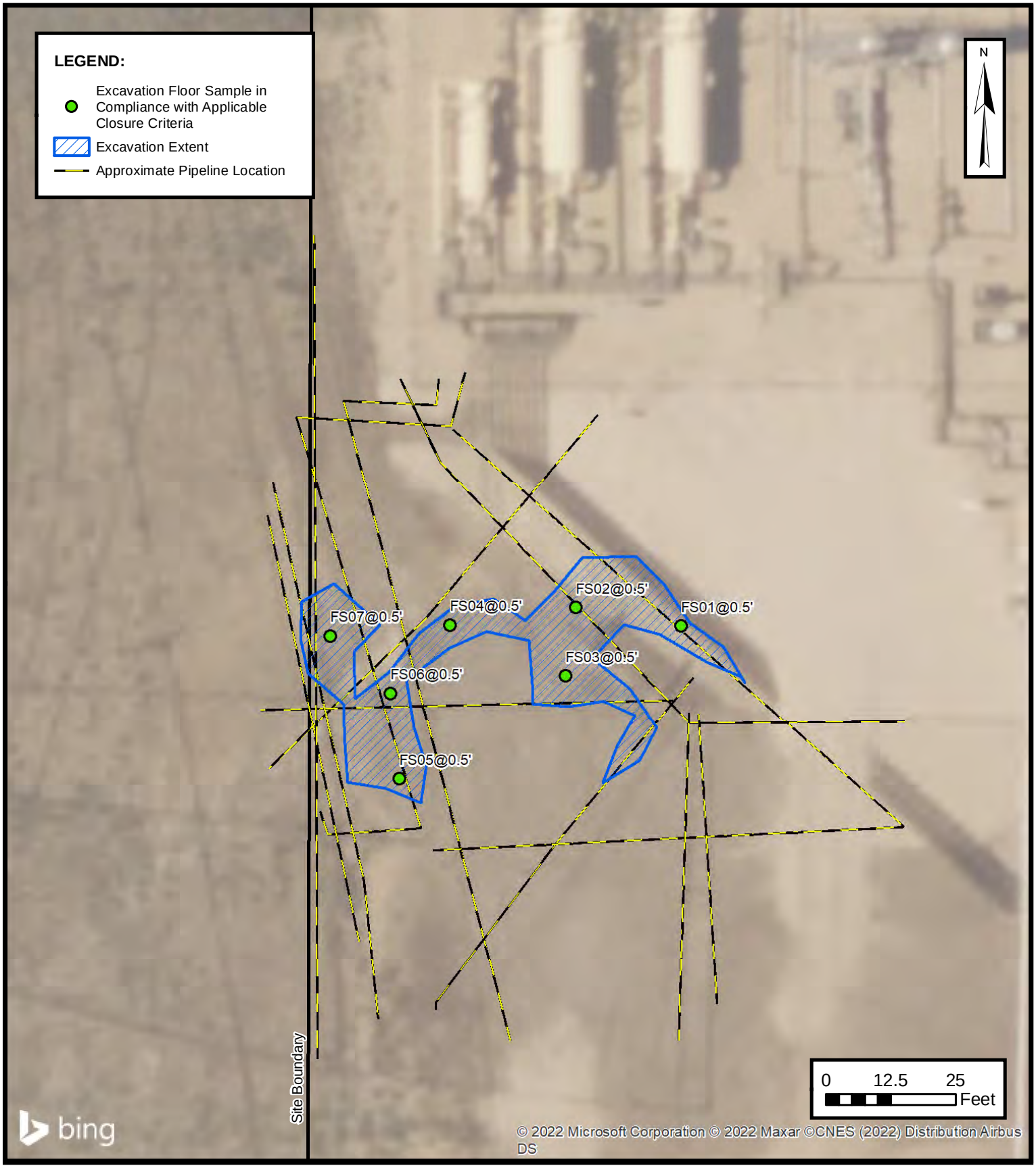
PRELIMINARY SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
EVGSAU 3202-385
NAPP2207331663
Unit J, Sec 32, T17S, R35E
Lea County, New Mexico

FIGURE

2



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EXCAVATIONSOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
EVGSAU 3202-385
NAPP2207331663
Unit J, Sec 32, T17S, R35E
Lea County, New Mexico

FIGURE

3

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TABLE

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
EVGSAU 3202-385
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**	**1,000**	**2,500**	**10,000**
Preliminary Assessment Soil Samples										
SS01	5/26/2022	0.2	<0.0200	<0.0399	61.3	3,740	934	**3,801**	**4,740**	4,170
SS02	5/26/2022	0.2	<0.0402	<0.0803	<250	8,990	2,740	**8,990**	**11,700**	4,080
SS03	5/26/2022	0.2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,430
SS04	5/26/2022	0.2	<0.0202	<0.0403	<49.9	1,050	274	**1,050**	1,320	5,660
SS05	5/26/2022	0.2	<0.0398	30.7	1,150	15,400	3,730	**16,550**	**20,300**	95.3
SS06	5/26/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	63.3
SS07	5/26/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	201
SS08	5/26/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	203
SS09	5/26/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	79.3
SS10	5/26/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	184
SS11	5/26/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	66.9
Excavation Soil Samples										
FS01	8/10/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	2,060
FS02	8/11/2022	0.5	<0.00200	<0.00400	<49.9	245	<49.9	245	245	3,750
FS03	8/11/2022	0.5	<0.00200	<0.00400	<50.0	132	<50.0	132	132	1,510
FS04	8/11/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,690
FS05	8/10/2022	0.5	<0.00200	<0.00400	<50.0	55.6	<50.0	55.6	55.6	901
FS06	8/10/2022	0.5	<0.00200	<0.00400	<49.9	267	<49.9	267	267	487
FS07	8/11/2022	0.5	<0.00200	<0.00400	<49.8	58.3	<49.8	58.3	58.3	1,460

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.

Grey text represents samples that have been excavated

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APPENDIX A

Final C141

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	
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	
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: Jocelyn Harimon Date: 03/14/2022

L48 Spill Volume Estimate Form

	EVGSAU 3202-385
Asset Area:	BUCKEYE
Release Discovery Date & Time:	2-27-22 11:30AM
Release Type:	Oil Mixture
Provide any known details about the event:	LEAK ON 2 7/8 STEEL FLOW LINE BY SATELLITE 3 ON WELL 3202-385

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	35.0	6.0	1.50	15.12%	4.673	0.706	18.00%	0.127	0.579
Rectangle B	28.0	18.0	1.50	15.12%	11.214	1.696	18.00%	0.305	1.390
Rectangle C	20.0	15.0	2.00	15.12%	8.900	1.346	18.00%	0.242	1.103
Rectangle D	21.0	10.0	2.00	15.12%	6.230	0.942	18.00%	0.170	0.772
Rectangle E	10.0	6.0	2.00	15.12%	1.780	0.269	18.00%	0.048	0.221
Rectangle F	27.0	1.0	1.00	15.12%	0.401	0.061	18.00%	0.011	0.050
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:		5.019		0.903	4.116

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: 89906
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/14/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207331663
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?	50-100 feet 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	NAPP2207331663
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: 08/26/2022

email: bryce.wagner@mavresouces.com Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon Date: 08/30/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207331663
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: HSE Specialist

Signature: Date: 08/26/2022

email: bryce.wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Jocelyn Harimon Date: 08/30/2022

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

Signature: Date:

ENSOLUM

APPENDIX B

Referenced Well Records

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 04829 S		3	4	32	17S	35E	642554	3628586*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date:	05/04/1979	**Drill Finish Date:**	05/14/1979	**Plug Date:**	
Log File Date:	06/06/1979	**PCW Rcv Date:**	06/06/1979	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	12.75	**Depth Well:**	198 feet	**Depth Water:**	85 feet

Water Bearing Stratifications:	Top	Bottom	Description
	85	198	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	115	195

Meter Number:	8632	**Meter Make:**	BROKS
Meter Serial Number:	78092085223	**Meter Multiplier:**	10.0000
Number of Dials:	6	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
01/01/2005	2005	0	A	jw		0	
03/31/2005	2005	944409	A	jw		121.728	
08/08/2005	2005	217766	R	jw	Meter Rollover	352.339	
09/30/2005	2005	548362	A	RPT		426.116	
12/31/2005	2005	119382	R	RPT	Meter Rollover	736.006	
03/31/2006	2006	248548	A	RPT		166.486	

**YTD Meter Amounts:	Year	Amount
	2005	1636.189
	2006	166.486

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

ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Maverick Natural Resources, LLC
EVGSAU 3202-385
Incident Number NAPP2207331663

Photograph 1 Date: 7/26/2022
Description: Photo of the release area during the initial assesment

Photograph 2 Date: 07/26/2022
Description: Photo of the release area during the initial assesment

Photograph 3 Date: 7/26/2022
Description: Photo of release extent taken during initial site assessment.

Photograph 4 Date: 7/25/2022
Description: Photo of release extent taken during initial site assessment.

ENSOLUM

Photographic Log
Maverick Natural Resources, LLC
EVGSAU 3202-385
Incident Number NAPP2207331663

Photograph 5 Date: 8/11/2022
Description: Photo of the release area after remediation activities

Photograph 6 Date: 08/11/2022
Description: Photo of the release area after remediation activities

Photograph 7 Date:8/11/2022
Description: Photo of the release area after remediation activities

Photograph 8 Date: 8/11/2022
Description: Photo of the release area after remediation activities

ENSOLUM

APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2350-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: EVGSAU 3202-385
Revision: 1

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/23/2022 3:22:20 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 3202-385

Laboratory Job ID: 890-2350-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Job ID: 890-2350-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2350-1

REVISION

The report being provided is a revision of the original report sent on 6/6/2022. The report (revision 1) is being revised due to Per client email, requesting sample depths to be corrected.

Report revision history

Receipt
The samples were received on 5/26/2022 4:45 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 7.0°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SS05 (890-2350-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Dilutions were performed for the following samples: SS01 (890-2350-1) and SS04 (890-2350-4) due to matrix interference.

Method 8021B: Dilutions were performed for the following samples: SS02 (890-2350-2) and SS05 (890-2350-5) due to matrix interference.

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

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-26573 and analytical batch 880-26533 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26573 and analytical batch 880-26533 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Client Sample ID: SS01
Date Collected: 05/26/22 11:00
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		06/03/22 09:28	06/03/22 18:19	10
Toluene	<0.0200	U	0.0200		mg/Kg		06/03/22 09:28	06/03/22 18:19	10
Ethylbenzene	<0.0200	U	0.0200		mg/Kg		06/03/22 09:28	06/03/22 18:19	10
m-Xylene & p-Xylene	<0.0399	U	0.0399		mg/Kg		06/03/22 09:28	06/03/22 18:19	10
o-Xylene	<0.0200	U	0.0200		mg/Kg		06/03/22 09:28	06/03/22 18:19	10
Xylenes, Total	<0.0399	U	0.0399		mg/Kg		06/03/22 09:28	06/03/22 18:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/03/22 09:28*	*06/03/22 18:19*	*10*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/03/22 09:28*	*06/03/22 18:19*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0399	U	0.0399		mg/Kg			06/03/22 10:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4740**		50.0		mg/Kg			06/01/22 09:20	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	**61.3**	***- *1**	50.0		mg/Kg		05/31/22 11:16	06/01/22 04:47	1
Diesel Range Organics (Over C10-C28)	**3740**		50.0		mg/Kg		05/31/22 11:16	06/01/22 04:47	1
Oil Range Organics (Over C28-C36)	**934**		50.0		mg/Kg		05/31/22 11:16	06/01/22 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/31/22 11:16*	*06/01/22 04:47*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/31/22 11:16*	*06/01/22 04:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4170**		49.8		mg/Kg			06/01/22 20:28	10

Client Sample ID: SS02
Date Collected: 05/26/22 11:05
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		06/03/22 09:28	06/03/22 18:40	20
Toluene	<0.0402	U	0.0402		mg/Kg		06/03/22 09:28	06/03/22 18:40	20
Ethylbenzene	**0.0651**		0.0402		mg/Kg		06/03/22 09:28	06/03/22 18:40	20
m-Xylene & p-Xylene	<0.0803	U	0.0803		mg/Kg		06/03/22 09:28	06/03/22 18:40	20
o-Xylene	<0.0402	U	0.0402		mg/Kg		06/03/22 09:28	06/03/22 18:40	20
Xylenes, Total	<0.0803	U	0.0803		mg/Kg		06/03/22 09:28	06/03/22 18:40	20

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Client Sample ID: SS02
Date Collected: 05/26/22 11:05
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*06/03/22 09:28*	*06/03/22 18:40*	*20*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/03/22 09:28*	*06/03/22 18:40*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0803	U	0.0803		mg/Kg			06/03/22 10:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**11700**		250		mg/Kg			06/01/22 09:20	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	<250	U *- *1	250		mg/Kg		05/31/22 11:16	06/01/22 04:26	5
Diesel Range Organics (Over C10-C28)	**8990**		250		mg/Kg		05/31/22 11:16	06/01/22 04:26	5
OII Range Organics (Over C28-C36)	**2740**		250		mg/Kg		05/31/22 11:16	06/01/22 04:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*91*		*70 - 130*	*05/31/22 11:16*	*06/01/22 04:26*	*5*
o-Terphenyl	*100*		*70 - 130*	*05/31/22 11:16*	*06/01/22 04:26*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4080**		49.6		mg/Kg			06/01/22 20:37	10

Client Sample ID: SS03
Date Collected: 05/26/22 11:07
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/01/22 14:48	06/03/22 03:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/01/22 14:48	06/03/22 03:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/01/22 14:48	06/03/22 03:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/01/22 14:48	06/03/22 03:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/01/22 14:48	06/03/22 03:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/01/22 14:48	06/03/22 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/01/22 14:48*	*06/03/22 03:18*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/01/22 14:48*	*06/03/22 03:18*	*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			06/03/22 10:04	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Client Sample ID: SS03
Date Collected: 05/26/22 11:07
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-3
Matrix: Solid

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			06/01/22 09:20	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 *- *1	49.9		mg/Kg		05/31/22 11:16	06/01/22 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/31/22 11:16	06/01/22 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/31/22 11:16	06/01/22 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/31/22 11:16*	*06/01/22 03:43*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/31/22 11:16*	*06/01/22 03:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2430**		25.1		mg/Kg			06/01/22 20:46	5

Client Sample ID: SS04
Date Collected: 05/26/22 11:10
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0202	U	0.0202		mg/Kg		06/03/22 09:28	06/03/22 17:59	10
Toluene	<0.0202	U	0.0202		mg/Kg		06/03/22 09:28	06/03/22 17:59	10
Ethylbenzene	<0.0202	U	0.0202		mg/Kg		06/03/22 09:28	06/03/22 17:59	10
m-Xylene & p-Xylene	<0.0403	U	0.0403		mg/Kg		06/03/22 09:28	06/03/22 17:59	10
o-Xylene	<0.0202	U	0.0202		mg/Kg		06/03/22 09:28	06/03/22 17:59	10
Xylenes, Total	<0.0403	U	0.0403		mg/Kg		06/03/22 09:28	06/03/22 17:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/03/22 09:28*	*06/03/22 17:59*	*10*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/03/22 09:28*	*06/03/22 17:59*	*10*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0403	U	0.0403		mg/Kg			06/03/22 10:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1320**		49.9		mg/Kg			06/01/22 09:20	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 *- *1	49.9		mg/Kg		05/31/22 11:16	06/01/22 05:09	1
Diesel Range Organics (Over C10-C28)	**1050**		49.9		mg/Kg		05/31/22 11:16	06/01/22 05:09	1
Oil Range Organics (Over C28-C36)	**274**		49.9		mg/Kg		05/31/22 11:16	06/01/22 05:09	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Client Sample ID: SS04
Date Collected: 05/26/22 11:10
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-4
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	05/31/22 11:16	06/01/22 05:09	1
o-Terphenyl	84		70 - 130	05/31/22 11:16	06/01/22 05:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5660		49.7		mg/Kg			06/01/22 21:14	10

Client Sample ID: SS05
Date Collected: 05/26/22 11:15
Date Received: 05/26/22 16:45
Sample Depth: 0.2' bgs

Lab Sample ID: 890-2350-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		06/03/22 09:28	06/03/22 19:00	20
Toluene	0.0403		0.0398		mg/Kg		06/03/22 09:28	06/03/22 19:00	20
Ethylbenzene	9.73		0.0994		mg/Kg		06/01/22 14:48	06/03/22 03:59	50
m-Xylene & p-Xylene	13.3		0.199		mg/Kg		06/01/22 14:48	06/03/22 03:59	50
o-Xylene	7.60		0.0994		mg/Kg		06/01/22 14:48	06/03/22 03:59	50
Xylenes, Total	20.9		0.199		mg/Kg		06/01/22 14:48	06/03/22 03:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	06/03/22 09:28	06/03/22 19:00	20
1,4-Difluorobenzene (Surr)	111		70 - 130	06/03/22 09:28	06/03/22 19:00	20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	30.7		0.199		mg/Kg			06/03/22 10:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20300		250		mg/Kg			06/01/22 09:20	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	1150	*- *1	250		mg/Kg		05/31/22 11:16	06/01/22 04:04	5
Diesel Range Organics (Over C10-C28)	15400		250		mg/Kg		05/31/22 11:16	06/01/22 04:04	5
Oil Range Organics (Over C28-C36)	3730		250		mg/Kg		05/31/22 11:16	06/01/22 04:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	05/31/22 11:16	06/01/22 04:04	5
o-Terphenyl	90		70 - 130	05/31/22 11:16	06/01/22 04:04	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.95		mg/Kg			06/01/22 21:23	1

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-15346-A-1-C MS	Matrix Spike	107	102
880-15346-A-1-D MSD	Matrix Spike Duplicate	100	100
890-2350-1	SS01	105	102
890-2350-2	SS02	77	109
890-2350-3	SS03	113	104
890-2350-4	SS04	96	96
890-2350-5	SS05	155 S1+	111
890-2351-A-5-D MS	Matrix Spike	95	102
890-2351-A-5-E MSD	Matrix Spike Duplicate	101	100
LCS 880-26641/1-A	Lab Control Sample	100	102
LCS 880-26788/1-A	Lab Control Sample	95	102
LCSD 880-26641/2-A	Lab Control Sample Dup	102	98
LCSD 880-26788/2-A	Lab Control Sample Dup	93	102
MB 880-26459/5-A	Method Blank	97	99
MB 880-26641/5-A	Method Blank	101	99
MB 880-26788/5-A	Method Blank	94	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2348-A-1-E MS	Matrix Spike	93	89
890-2348-A-1-F MSD	Matrix Spike Duplicate	84	80
890-2350-1	SS01	111	113
890-2350-2	SS02	91	100
890-2350-3	SS03	88	97
890-2350-4	SS04	83	84
890-2350-5	SS05	122	90
LCS 880-26573/2-A	Lab Control Sample	98	100
LCSD 880-26573/3-A	Lab Control Sample Dup	92	93
MB 880-26573/1-A	Method Blank	95	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26459/5-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26459

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/22 14:42	06/02/22 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:30*	*1*

Lab Sample ID: MB 880-26641/5-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26641

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/01/22 10:48	06/03/22 01:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/01/22 10:48*	*06/03/22 01:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/01/22 10:48*	*06/03/22 01:07*	*1*

Lab Sample ID: LCS 880-26641/1-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26641

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08593		mg/Kg		86	70 - 130		
Toluene			0.100	0.09036		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.08043		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1867		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09391		mg/Kg		94	70 - 130		

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

Lab Sample ID: LCSD 880-26641/2-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26641

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07928		mg/Kg		79	70 - 130	8	35

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-26641/2-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26641

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08888		mg/Kg		89	70 - 130	2	35
Ethylbenzene			0.100	0.08075		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1870		mg/Kg		94	70 - 130	0	35
o-Xylene			0.100	0.09435		mg/Kg		94	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-15346-A-1-C MS
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08698		mg/Kg		87	70 - 130
Toluene	<0.00199	U	0.0998	0.09229		mg/Kg		92	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08338		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1899		mg/Kg		95	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09459		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-15346-A-1-D MSD
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07537		mg/Kg		75	70 - 130	14	35
Toluene	<0.00199	U	0.100	0.07843		mg/Kg		78	70 - 130	16	35
Ethylbenzene	<0.00199	U	0.100	0.07059		mg/Kg		70	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1591		mg/Kg		79	70 - 130	18	35
o-Xylene	<0.00199	U	0.100	0.08010		mg/Kg		80	70 - 130	17	35

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

Lab Sample ID: MB 880-26788/5-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26788

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 09:28	06/03/22 11:47	1

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QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-26788/5-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26788

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 09:28	06/03/22 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/03/22 09:28*	*06/03/22 11:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/03/22 09:28*	*06/03/22 11:47*	*1*

Lab Sample ID: LCS 880-26788/1-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1033		mg/Kg		103	70 - 130		
Toluene			0.100	0.09719		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09928		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1964		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09652		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-26788/2-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26788

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09572		mg/Kg		96	70 - 130	8	35
Toluene			0.100	0.09046		mg/Kg		90	70 - 130	7	35
Ethylbenzene			0.100	0.09188		mg/Kg		92	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1819		mg/Kg		91	70 - 130	8	35
o-Xylene			0.100	0.09004		mg/Kg		90	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2351-A-5-D MS
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.09471		mg/Kg		95	70 - 130		
Toluene	<0.00201	U	0.100	0.08831		mg/Kg		88	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.08780		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1725		mg/Kg		86	70 - 130		
o-Xylene	<0.00201	U	0.100	0.08523		mg/Kg		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

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

Lab Sample ID: 890-2351-A-5-D MS
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26788

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2351-A-5-E MSD
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09536		mg/Kg		96	70 - 130	1	35
Toluene	<0.00201	U	0.0998	0.08928		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.08779		mg/Kg		88	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1733		mg/Kg		87	70 - 130	0	35
o-Xylene	<0.00201	U	0.0998	0.08609		mg/Kg		86	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-26573/1-A
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26573

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		05/31/22 11:16	05/31/22 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	05/31/22 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	05/31/22 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*95*		*70 - 130*	*05/31/22 11:16*	*05/31/22 20:27*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/31/22 11:16*	*05/31/22 20:27*	*1*

Lab Sample ID: LCS 880-26573/2-A
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26573

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	908.4		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	916.4		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-26573/3-A
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26573

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	694.0	*- *1	mg/Kg		69	70 - 130	27	20
Diesel Range Organics (Over C10-C28)			1000	819.4		mg/Kg		82	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 890-2348-A-1-E MS
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	1000	959.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	910.9		mg/Kg		91	70 - 130

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

Lab Sample ID: 890-2348-A-1-F MSD
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	999	960.5		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	829.3		mg/Kg		83	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26566/1-A
Matrix: Solid
Analysis Batch: 26664

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			06/01/22 18:09	1

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-26566/2-A
Matrix: Solid
Analysis Batch: 26664

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	224.5		mg/Kg		90	90 - 110		

Lab Sample ID: LCSD 880-26566/3-A
Matrix: Solid
Analysis Batch: 26664

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	226.0		mg/Kg		90	90 - 110	1	20

Lab Sample ID: 890-2350-3 MS
Matrix: Solid
Analysis Batch: 26664

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2430		1250	3737		mg/Kg		104	90 - 110		

Lab Sample ID: 890-2350-3 MSD
Matrix: Solid
Analysis Batch: 26664

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2430		1250	3765		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

GC VOA

Prep Batch: 26459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26459/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 26641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-3	SS03	Total/NA	Solid	5035	
890-2350-5	SS05	Total/NA	Solid	5035	
MB 880-26641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15346-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-15346-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-3	SS03	Total/NA	Solid	8021B	26641
890-2350-5	SS05	Total/NA	Solid	8021B	26641
MB 880-26459/5-A	Method Blank	Total/NA	Solid	8021B	26459
MB 880-26641/5-A	Method Blank	Total/NA	Solid	8021B	26641
LCS 880-26641/1-A	Lab Control Sample	Total/NA	Solid	8021B	26641
LCSD 880-26641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26641
880-15346-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	26641
880-15346-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26641

Analysis Batch: 26785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Total/NA	Solid	8021B	26788
890-2350-2	SS02	Total/NA	Solid	8021B	26788
890-2350-4	SS04	Total/NA	Solid	8021B	26788
890-2350-5	SS05	Total/NA	Solid	8021B	26788
MB 880-26788/5-A	Method Blank	Total/NA	Solid	8021B	26788
LCS 880-26788/1-A	Lab Control Sample	Total/NA	Solid	8021B	26788
LCSD 880-26788/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26788
890-2351-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	26788
890-2351-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26788

Prep Batch: 26788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Total/NA	Solid	5035	
890-2350-2	SS02	Total/NA	Solid	5035	
890-2350-4	SS04	Total/NA	Solid	5035	
890-2350-5	SS05	Total/NA	Solid	5035	
MB 880-26788/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26788/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26788/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2351-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2351-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Total/NA	Solid	Total BTEX	
890-2350-2	SS02	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 26799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-3	SS03	Total/NA	Solid	Total BTEX	
890-2350-4	SS04	Total/NA	Solid	Total BTEX	
890-2350-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Total/NA	Solid	8015B NM	26573
890-2350-2	SS02	Total/NA	Solid	8015B NM	26573
890-2350-3	SS03	Total/NA	Solid	8015B NM	26573
890-2350-4	SS04	Total/NA	Solid	8015B NM	26573
890-2350-5	SS05	Total/NA	Solid	8015B NM	26573
MB 880-26573/1-A	Method Blank	Total/NA	Solid	8015B NM	26573
LCS 880-26573/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26573
LCSD 880-26573/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26573
890-2348-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	26573
890-2348-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26573

Prep Batch: 26573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Total/NA	Solid	8015NM Prep	
890-2350-2	SS02	Total/NA	Solid	8015NM Prep	
890-2350-3	SS03	Total/NA	Solid	8015NM Prep	
890-2350-4	SS04	Total/NA	Solid	8015NM Prep	
890-2350-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-26573/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26573/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26573/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2348-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2348-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Total/NA	Solid	8015 NM	
890-2350-2	SS02	Total/NA	Solid	8015 NM	
890-2350-3	SS03	Total/NA	Solid	8015 NM	
890-2350-4	SS04	Total/NA	Solid	8015 NM	
890-2350-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Soluble	Solid	DI Leach	
890-2350-2	SS02	Soluble	Solid	DI Leach	
890-2350-3	SS03	Soluble	Solid	DI Leach	
890-2350-4	SS04	Soluble	Solid	DI Leach	
890-2350-5	SS05	Soluble	Solid	DI Leach	
MB 880-26566/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26566/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26566/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 26566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-3 MS	SS03	Soluble	Solid	DI Leach	
890-2350-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 26664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2350-1	SS01	Soluble	Solid	300.0	26566
890-2350-2	SS02	Soluble	Solid	300.0	26566
890-2350-3	SS03	Soluble	Solid	300.0	26566
890-2350-4	SS04	Soluble	Solid	300.0	26566
890-2350-5	SS05	Soluble	Solid	300.0	26566
MB 880-26566/1-A	Method Blank	Soluble	Solid	300.0	26566
LCS 880-26566/2-A	Lab Control Sample	Soluble	Solid	300.0	26566
LCSD 880-26566/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26566
890-2350-3 MS	SS03	Soluble	Solid	300.0	26566
890-2350-3 MSD	SS03	Soluble	Solid	300.0	26566

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Client Sample ID: SS01
Date Collected: 05/26/22 11:00
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2350-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26788	06/03/22 09:28	MR	EET MID
Total/NA	Analysis	8021B		10	0 mL	1.0 mL	26785	06/03/22 18:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			26799	06/03/22 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			26631	06/01/22 09:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26573	05/31/22 11:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 04:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26566	05/31/22 10:44	SMC	EET MID
Soluble	Analysis	300.0		10			26664	06/01/22 20:28	CH	EET MID

Client Sample ID: SS02
Date Collected: 05/26/22 11:05
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2350-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26788	06/03/22 09:28	MR	EET MID
Total/NA	Analysis	8021B		20	0 mL	1.0 mL	26785	06/03/22 18:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			26799	06/03/22 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			26631	06/01/22 09:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26573	05/31/22 11:16	DM	EET MID
Total/NA	Analysis	8015B NM		5			26533	06/01/22 04:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26566	05/31/22 10:44	SMC	EET MID
Soluble	Analysis	300.0		10			26664	06/01/22 20:37	CH	EET MID

Client Sample ID: SS03
Date Collected: 05/26/22 11:07
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2350-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26641	06/01/22 14:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/03/22 03:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			26799	06/03/22 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			26631	06/01/22 09:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26573	05/31/22 11:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 03:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	26566	05/31/22 10:44	SMC	EET MID
Soluble	Analysis	300.0		5			26664	06/01/22 20:46	CH	EET MID

Client Sample ID: SS04
Date Collected: 05/26/22 11:10
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2350-4
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			4.96 g	5 mL	26788	06/03/22 09:28	MR	EET MID
Total/NA	Analysis	8021B		10	0 mL	1.0 mL	26785	06/03/22 17:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			26799	06/03/22 10:04	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Client Sample ID: SS04

Date Collected: 05/26/22 11:10
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2350-4
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			26631	06/01/22 09:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26573	05/31/22 11:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 05:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26566	05/31/22 10:44	SMC	EET MID
Soluble	Analysis	300.0		10			26664	06/01/22 21:14	CH	EET MID

Client Sample ID: SS05

Date Collected: 05/26/22 11:15
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2350-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26641	06/01/22 14:48	MR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	26715	06/03/22 03:59	MR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	26788	06/03/22 09:28	MR	EET MID
Total/NA	Analysis	8021B		20	0 mL	1.0 mL	26785	06/03/22 19:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			26799	06/03/22 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			26631	06/01/22 09:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26573	05/31/22 11:16	DM	EET MID
Total/NA	Analysis	8015B NM		5			26533	06/01/22 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26566	05/31/22 10:44	SMC	EET MID
Soluble	Analysis	300.0		1			26664	06/01/22 21:23	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

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	06-30-22

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 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2350-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2350-1	SS01	Solid	05/26/22 11:00	05/26/22 16:45	0.2' bgs
890-2350-2	SS02	Solid	05/26/22 11:05	05/26/22 16:45	0.2' bgs
890-2350-3	SS03	Solid	05/26/22 11:07	05/26/22 16:45	0.2' bgs
890-2350-4	SS04	Solid	05/26/22 11:10	05/26/22 16:45	0.2' bgs
890-2350-5	SS05	Solid	05/26/22 11:15	05/26/22 16:45	0.2' bgs

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 Nat. Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	8176832503	Email:	kjennings@ensolum.com

Work Order Comments

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

Project Name:	E-VGSAU3202-385	Turn Around	
Project Number:	03020240414	☒ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Liz Crell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	N/a		

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	T_NM_007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	7.2
Total Containers:		Corrected Temperature:	7.0

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH (epa 8015)	BTEX (epa 8021)	Chloride (epa 300)
SS01	S	5/26/22	1100	0.5'	G	1		X	X	X
SS02			1105					X	X	X
SS03			1107					X	X	X
SS04			1110					X	X	X
SS05			1115					X	X	X

Parameters

Preservative Codes

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

Sample Comments

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	Ice Cup	5/26/22 1645			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2350-1
SDG Number: Lea County NM

Login Number: 2350
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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: 890-2350-1
SDG Number: Lea County NM

Login Number: 2350
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 05/31/22 08:34 AM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2351-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: EVGSAU 3202-385

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
6/3/2022 1:28:16 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 3202-385

Laboratory Job ID: 890-2351-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Job ID: 890-2351-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2351-1

Receipt
The samples were received on 5/26/2022 4:45 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 7.0°C

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

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-26573 and analytical batch 880-26533 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26573 and analytical batch 880-26533 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS06

Lab Sample ID: 890-2351-1
Matrix: Solid
Date Collected: 05/26/22 12:10
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 07:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 07:52	1
Ethylbenzene	**0.00275**		0.00200		mg/Kg		06/01/22 10:48	06/03/22 07:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/01/22 10:48	06/03/22 07:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 07:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/01/22 10:48	06/03/22 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/01/22 10:48*	*06/03/22 07:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/01/22 10:48*	*06/03/22 07:52*	*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			06/03/22 10:04	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			06/01/22 09:20	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 *- *1	50.0		mg/Kg		05/31/22 11:16	06/01/22 01:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 01:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/31/22 11:16*	*06/01/22 01:11*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/31/22 11:16*	*06/01/22 01:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.3**		5.03		mg/Kg			06/01/22 21:51	1

Client Sample ID: SS07

Lab Sample ID: 890-2351-2
Matrix: Solid
Date Collected: 05/26/22 12:15
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/01/22 10:48	06/03/22 08:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/01/22 10:48	06/03/22 08:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/01/22 10:48	06/03/22 08:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/01/22 10:48	06/03/22 08:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/01/22 10:48	06/03/22 08:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/01/22 10:48	06/03/22 08:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/01/22 10:48*	*06/03/22 08:12*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS07

Lab Sample ID: 890-2351-2
Matrix: Solid

Date Collected: 05/26/22 12:15
Date Received: 05/26/22 16:45
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/01/22 10:48*	*06/03/22 08:12*	*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			06/03/22 10:04	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			06/01/22 09:20	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 *- *1	49.9		mg/Kg		05/31/22 11:16	06/01/22 01:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/31/22 11:16	06/01/22 01:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/31/22 11:16	06/01/22 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*101*		*70 - 130*	*05/31/22 11:16*	*06/01/22 01:33*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/31/22 11:16*	*06/01/22 01:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**201**		5.02		mg/Kg			06/01/22 22:00	1

Client Sample ID: SS08

Lab Sample ID: 890-2351-3
Matrix: Solid

Date Collected: 05/26/22 12:50
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 08:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 08:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 08:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/01/22 10:48	06/03/22 08:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 08:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/01/22 10:48	06/03/22 08:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/01/22 10:48*	*06/03/22 08:33*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/01/22 10:48*	*06/03/22 08:33*	*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			06/03/22 10:04	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			06/01/22 09:20	1

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Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS08

Date Collected: 05/26/22 12:50
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Lab Sample ID: 890-2351-3

Matrix: Solid

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 *- *1	49.9		mg/Kg		05/31/22 11:16	06/01/22 02:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/31/22 11:16	06/01/22 02:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/31/22 11:16	06/01/22 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/31/22 11:16*	*06/01/22 02:16*	*1*
o-Terphenyl	*109*		*70 - 130*	*05/31/22 11:16*	*06/01/22 02:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		5.03		mg/Kg			06/01/22 22:09	1

Client Sample ID: SS09

Date Collected: 05/26/22 12:55
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Lab Sample ID: 890-2351-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/01/22 10:48	06/03/22 08:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/01/22 10:48	06/03/22 08:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/01/22 10:48	06/03/22 08:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/01/22 10:48	06/03/22 08:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/01/22 10:48	06/03/22 08:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/01/22 10:48	06/03/22 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/01/22 10:48*	*06/03/22 08:53*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/01/22 10:48*	*06/03/22 08:53*	*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			06/03/22 10:04	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			06/01/22 09:20	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 *- *1	50.0		mg/Kg		05/31/22 11:16	06/01/22 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 02:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/31/22 11:16*	*06/01/22 02:38*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/31/22 11:16*	*06/01/22 02:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS09

Lab Sample ID: 890-2351-4
Matrix: Solid
Date Collected: 05/26/22 12:55
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.3		4.99		mg/Kg			06/01/22 22:18	1

Client Sample ID: SS10

Lab Sample ID: 890-2351-5
Matrix: Solid
Date Collected: 05/26/22 13:00
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/03/22 09:28	06/03/22 12:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/03/22 09:28	06/03/22 12:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/03/22 09:28	06/03/22 12:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/03/22 09:28	06/03/22 12:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/03/22 09:28	06/03/22 12:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/03/22 09:28	06/03/22 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/03/22 09:28*	*06/03/22 12:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/03/22 09:28*	*06/03/22 12:09*	*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			06/03/22 10:04	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			06/01/22 09:20	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 *- *1	50.0		mg/Kg		05/31/22 11:16	06/01/22 03:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 03:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/31/22 11:16*	*06/01/22 03:00*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/31/22 11:16*	*06/01/22 03:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		4.99		mg/Kg			06/01/22 22:27	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS11

Date Collected: 05/26/22 13:05
Date Received: 05/26/22 16:45
Sample Depth: 0.5

Lab Sample ID: 890-2351-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/03/22 09:28	06/03/22 12:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/03/22 09:28	06/03/22 12:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/03/22 09:28	06/03/22 12:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/03/22 09:28	06/03/22 12:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/03/22 09:28	06/03/22 12:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/03/22 09:28	06/03/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/03/22 09:28*	*06/03/22 12:29*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/03/22 09:28*	*06/03/22 12:29*	*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			06/03/22 10:04	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			06/01/22 09:20	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 *- *1	50.0		mg/Kg		05/31/22 11:16	06/01/22 03:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 03:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	06/01/22 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/31/22 11:16*	*06/01/22 03:22*	*1*
o-Terphenyl	*106*		*70 - 130*	*05/31/22 11:16*	*06/01/22 03:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.9**		5.03		mg/Kg			06/01/22 22:37	1

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-15346-A-1-C MS	Matrix Spike	107	102
880-15346-A-1-D MSD	Matrix Spike Duplicate	100	100
890-2351-1	SS06	110	101
890-2351-2	SS07	105	98
890-2351-3	SS08	107	101
890-2351-4	SS09	114	101
890-2351-5	SS10	100	97
890-2351-5 MS	SS10	95	102
890-2351-5 MSD	SS10	101	100
890-2351-6	SS11	100	99
LCS 880-26641/1-A	Lab Control Sample	100	102
LCS 880-26788/1-A	Lab Control Sample	95	102
LCSD 880-26641/2-A	Lab Control Sample Dup	102	98
LCSD 880-26788/2-A	Lab Control Sample Dup	93	102
MB 880-26459/5-A	Method Blank	97	99
MB 880-26641/5-A	Method Blank	101	99
MB 880-26788/5-A	Method Blank	94	91

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2348-A-1-E MS	Matrix Spike	93	89
890-2348-A-1-F MSD	Matrix Spike Duplicate	84	80
890-2351-1	SS06	94	99
890-2351-2	SS07	101	107
890-2351-3	SS08	101	109
890-2351-4	SS09	88	93
890-2351-5	SS10	88	91
890-2351-6	SS11	99	106
LCS 880-26573/2-A	Lab Control Sample	98	100
LCSD 880-26573/3-A	Lab Control Sample Dup	92	93
MB 880-26573/1-A	Method Blank	95	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26459/5-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26459

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/22 14:42	06/02/22 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:30*	*1*

Lab Sample ID: MB 880-26641/5-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26641

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/01/22 10:48	06/03/22 01:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/01/22 10:48	06/03/22 01:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/01/22 10:48*	*06/03/22 01:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/01/22 10:48*	*06/03/22 01:07*	*1*

Lab Sample ID: LCS 880-26641/1-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26641

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08593		mg/Kg		86	70 - 130		
Toluene			0.100	0.09036		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.08043		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1867		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09391		mg/Kg		94	70 - 130		

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

Lab Sample ID: LCSD 880-26641/2-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26641

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07928		mg/Kg		79	70 - 130	8	35

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-26641/2-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26641

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08888		mg/Kg		89	70 - 130	2	35
Ethylbenzene			0.100	0.08075		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1870		mg/Kg		94	70 - 130	0	35
o-Xylene			0.100	0.09435		mg/Kg		94	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-15346-A-1-C MS
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.08698		mg/Kg		87	70 - 130		
Toluene	<0.00199	U	0.0998	0.09229		mg/Kg		92	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.08338		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1899		mg/Kg		95	70 - 130		
o-Xylene	<0.00199	U	0.0998	0.09459		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-15346-A-1-D MSD
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07537		mg/Kg		75	70 - 130	14	35
Toluene	<0.00199	U	0.100	0.07843		mg/Kg		78	70 - 130	16	35
Ethylbenzene	<0.00199	U	0.100	0.07059		mg/Kg		70	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1591		mg/Kg		79	70 - 130	18	35
o-Xylene	<0.00199	U	0.100	0.08010		mg/Kg		80	70 - 130	17	35

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

Lab Sample ID: MB 880-26788/5-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26788

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/03/22 09:28	06/03/22 11:47	1

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QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-26788/5-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26788

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/03/22 09:28	06/03/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/03/22 09:28	06/03/22 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/03/22 09:28*	*06/03/22 11:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/03/22 09:28*	*06/03/22 11:47*	*1*

Lab Sample ID: LCS 880-26788/1-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1033		mg/Kg		103	70 - 130		
Toluene			0.100	0.09719		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09928		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1964		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09652		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-26788/2-A
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26788

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09572		mg/Kg		96	70 - 130	8	35
Toluene			0.100	0.09046		mg/Kg		90	70 - 130	7	35
Ethylbenzene			0.100	0.09188		mg/Kg		92	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1819		mg/Kg		91	70 - 130	8	35
o-Xylene			0.100	0.09004		mg/Kg		90	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2351-5 MS
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: SS10
Prep Type: Total/NA
Prep Batch: 26788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.09471		mg/Kg		95	70 - 130		
Toluene	<0.00201	U	0.100	0.08831		mg/Kg		88	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.08780		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1725		mg/Kg		86	70 - 130		
o-Xylene	<0.00201	U	0.100	0.08523		mg/Kg		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

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

Lab Sample ID: 890-2351-5 MS
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: SS10
Prep Type: Total/NA
Prep Batch: 26788

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2351-5 MSD
Matrix: Solid
Analysis Batch: 26785

Client Sample ID: SS10
Prep Type: Total/NA
Prep Batch: 26788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09536		mg/Kg		96	70 - 130	1	35
Toluene	<0.00201	U	0.0998	0.08928		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.08779		mg/Kg		88	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1733		mg/Kg		87	70 - 130	0	35
o-Xylene	<0.00201	U	0.0998	0.08609		mg/Kg		86	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-26573/1-A
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26573

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		05/31/22 11:16	05/31/22 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	05/31/22 20:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/22 11:16	05/31/22 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	05/31/22 11:16	05/31/22 20:27	1
o-Terphenyl	108		70 - 130	05/31/22 11:16	05/31/22 20:27	1

Lab Sample ID: LCS 880-26573/2-A
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26573

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	908.4		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	916.4		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	100		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-26573/3-A
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26573

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	694.0	*- *1	mg/Kg		69	70 - 130	27	20
Diesel Range Organics (Over C10-C28)			1000	819.4		mg/Kg		82	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 890-2348-A-1-E MS
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26573

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	1000	959.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	910.9		mg/Kg		91	70 - 130

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

Lab Sample ID: 890-2348-A-1-F MSD
Matrix: Solid
Analysis Batch: 26533

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26573

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	999	960.5		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	829.3		mg/Kg		83	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26566/1-A
Matrix: Solid
Analysis Batch: 26664

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			06/01/22 18:09	1

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-26566/2-A
Matrix: Solid
Analysis Batch: 26664

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	224.5		mg/Kg		90	90 - 110		

Lab Sample ID: LCSD 880-26566/3-A
Matrix: Solid
Analysis Batch: 26664

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	226.0		mg/Kg		90	90 - 110	1	20

Lab Sample ID: 890-2350-A-3-B MS
Matrix: Solid
Analysis Batch: 26664

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	2430		1250	3737		mg/Kg		104	90 - 110		

Lab Sample ID: 890-2350-A-3-C MSD
Matrix: Solid
Analysis Batch: 26664

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	2430		1250	3765		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

GC VOA

Prep Batch: 26459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26459/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 26641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Total/NA	Solid	5035	
890-2351-2	SS07	Total/NA	Solid	5035	
890-2351-3	SS08	Total/NA	Solid	5035	
890-2351-4	SS09	Total/NA	Solid	5035	
MB 880-26641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15346-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-15346-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Total/NA	Solid	8021B	26641
890-2351-2	SS07	Total/NA	Solid	8021B	26641
890-2351-3	SS08	Total/NA	Solid	8021B	26641
890-2351-4	SS09	Total/NA	Solid	8021B	26641
MB 880-26459/5-A	Method Blank	Total/NA	Solid	8021B	26459
MB 880-26641/5-A	Method Blank	Total/NA	Solid	8021B	26641
LCS 880-26641/1-A	Lab Control Sample	Total/NA	Solid	8021B	26641
LCSD 880-26641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26641
880-15346-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	26641
880-15346-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26641

Analysis Batch: 26785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-5	SS10	Total/NA	Solid	8021B	26788
890-2351-6	SS11	Total/NA	Solid	8021B	26788
MB 880-26788/5-A	Method Blank	Total/NA	Solid	8021B	26788
LCS 880-26788/1-A	Lab Control Sample	Total/NA	Solid	8021B	26788
LCSD 880-26788/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26788
890-2351-5 MS	SS10	Total/NA	Solid	8021B	26788
890-2351-5 MSD	SS10	Total/NA	Solid	8021B	26788

Prep Batch: 26788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-5	SS10	Total/NA	Solid	5035	
890-2351-6	SS11	Total/NA	Solid	5035	
MB 880-26788/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26788/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26788/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2351-5 MS	SS10	Total/NA	Solid	5035	
890-2351-5 MSD	SS10	Total/NA	Solid	5035	

Analysis Batch: 26801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Total/NA	Solid	Total BTEX	
890-2351-2	SS07	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 26801 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-3	SS08	Total/NA	Solid	Total BTEX	
890-2351-4	SS09	Total/NA	Solid	Total BTEX	
890-2351-5	SS10	Total/NA	Solid	Total BTEX	
890-2351-6	SS11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Total/NA	Solid	8015B NM	26573
890-2351-2	SS07	Total/NA	Solid	8015B NM	26573
890-2351-3	SS08	Total/NA	Solid	8015B NM	26573
890-2351-4	SS09	Total/NA	Solid	8015B NM	26573
890-2351-5	SS10	Total/NA	Solid	8015B NM	26573
890-2351-6	SS11	Total/NA	Solid	8015B NM	26573
MB 880-26573/1-A	Method Blank	Total/NA	Solid	8015B NM	26573
LCS 880-26573/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26573
LCSD 880-26573/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26573
890-2348-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	26573
890-2348-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26573

Prep Batch: 26573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Total/NA	Solid	8015NM Prep	
890-2351-2	SS07	Total/NA	Solid	8015NM Prep	
890-2351-3	SS08	Total/NA	Solid	8015NM Prep	
890-2351-4	SS09	Total/NA	Solid	8015NM Prep	
890-2351-5	SS10	Total/NA	Solid	8015NM Prep	
890-2351-6	SS11	Total/NA	Solid	8015NM Prep	
MB 880-26573/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26573/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26573/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2348-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2348-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Total/NA	Solid	8015 NM	
890-2351-2	SS07	Total/NA	Solid	8015 NM	
890-2351-3	SS08	Total/NA	Solid	8015 NM	
890-2351-4	SS09	Total/NA	Solid	8015 NM	
890-2351-5	SS10	Total/NA	Solid	8015 NM	
890-2351-6	SS11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Soluble	Solid	DI Leach	
890-2351-2	SS07	Soluble	Solid	DI Leach	
890-2351-3	SS08	Soluble	Solid	DI Leach	
890-2351-4	SS09	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 26566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-5	SS10	Soluble	Solid	DI Leach	
890-2351-6	SS11	Soluble	Solid	DI Leach	
MB 880-26566/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26566/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26566/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2350-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2350-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 26664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2351-1	SS06	Soluble	Solid	300.0	26566
890-2351-2	SS07	Soluble	Solid	300.0	26566
890-2351-3	SS08	Soluble	Solid	300.0	26566
890-2351-4	SS09	Soluble	Solid	300.0	26566
890-2351-5	SS10	Soluble	Solid	300.0	26566
890-2351-6	SS11	Soluble	Solid	300.0	26566
MB 880-26566/1-A	Method Blank	Soluble	Solid	300.0	26566
LCS 880-26566/2-A	Lab Control Sample	Soluble	Solid	300.0	26566
LCSD 880-26566/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26566
890-2350-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	26566
890-2350-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26566

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS06
Date Collected: 05/26/22 12:10
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26641	06/01/22 10:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/03/22 07:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26801	06/03/22 10:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26630	06/01/22 09:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26573	05/31/22 11:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 01:11	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	26566	05/31/22 10:44	SC	XEN MID
Soluble	Analysis	300.0		1			26664	06/01/22 21:51	CH	XEN MID

Client Sample ID: SS07
Date Collected: 05/26/22 12:15
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26641	06/01/22 10:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/03/22 08:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26801	06/03/22 10:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26630	06/01/22 09:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26573	05/31/22 11:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 01:33	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	26566	05/31/22 10:44	SC	XEN MID
Soluble	Analysis	300.0		1			26664	06/01/22 22:00	CH	XEN MID

Client Sample ID: SS08
Date Collected: 05/26/22 12:50
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-3
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			5.01 g	5 mL	26641	06/01/22 10:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/03/22 08:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26801	06/03/22 10:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26630	06/01/22 09:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26573	05/31/22 11:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 02:16	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	26566	05/31/22 10:44	SC	XEN MID
Soluble	Analysis	300.0		1			26664	06/01/22 22:09	CH	XEN MID

Client Sample ID: SS09
Date Collected: 05/26/22 12:55
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26641	06/01/22 10:48	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/03/22 08:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26801	06/03/22 10:04	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Client Sample ID: SS09

Date Collected: 05/26/22 12:55
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-4

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			26630	06/01/22 09:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26573	05/31/22 11:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 02:38	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26566	05/31/22 10:44	SC	XEN MID
Soluble	Analysis	300.0		1			26664	06/01/22 22:18	CH	XEN MID

Client Sample ID: SS10

Date Collected: 05/26/22 13:00
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-5

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			4.98 g	5 mL	26788	06/03/22 09:28	MR	XEN MID
Total/NA	Analysis	8021B		1			26785	06/03/22 12:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26801	06/03/22 10:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26630	06/01/22 09:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26573	05/31/22 11:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 03:00	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26566	05/31/22 10:44	SC	XEN MID
Soluble	Analysis	300.0		1			26664	06/01/22 22:27	CH	XEN MID

Client Sample ID: SS11

Date Collected: 05/26/22 13:05
Date Received: 05/26/22 16:45

Lab Sample ID: 890-2351-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26788	06/03/22 09:28	MR	XEN MID
Total/NA	Analysis	8021B		1			26785	06/03/22 12:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26801	06/03/22 10:04	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26630	06/01/22 09:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26573	05/31/22 11:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26533	06/01/22 03:22	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	26566	05/31/22 10:44	SC	XEN MID
Soluble	Analysis	300.0		1			26664	06/01/22 22:37	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

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	T104704400-21-22	06-30-22

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 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

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

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

Sample Summary

Client: Ensolum
Project/Site: EVGSAU 3202-385

Job ID: 890-2351-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2351-1	SS06	Solid	05/26/22 12:10	05/26/22 16:45	0.5
890-2351-2	SS07	Solid	05/26/22 12:15	05/26/22 16:45	0.5
890-2351-3	SS08	Solid	05/26/22 12:50	05/26/22 16:45	0.5
890-2351-4	SS09	Solid	05/26/22 12:55	05/26/22 16:45	0.5
890-2351-5	SS10	Solid	05/26/22 13:00	05/26/22 16:45	0.5
890-2351-6	SS11	Solid	05/26/22 13:05	05/26/22 16:45	0.5

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 Nat. Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

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

Project Name:	EVGSAU 3207-385	Turn Around	
Project Number:	03D2024044	☒ Routine ☐ Rush	
Project Location:	Lea County NM	Due Date:	
Sampler's Name:	Liz Chell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	N/a		

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	7.2	
Total Containers:		Corrected Temperature:	7.0	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300)	Sample Comments
SS06	S	5/26/22	1210	0.5'	G	1		X	X	X	
SS07			1215								
SS08			1250								
SS09			1255								
SS10			1300								
SS11			1305								

890-2351 Chain of Custody

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Amanda Stef	5/26/22 1645			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2351-1
SDG Number: Lea County NM

Login Number: 2351
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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: 890-2351-1
SDG Number: Lea County NM

Login Number: 2351
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 05/31/22 08:34 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").	False	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2747-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: EVGSAU 3202-383

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/18/2022 9:48:50 AM

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 3202-383

Laboratory Job ID: 890-2747-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, 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.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Job ID: 890-2747-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2747-1

Receipt
The samples were received on 8/11/2022 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32109 and analytical batch 880-32125 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Gasoline range hydrocarbons biased low in LCSD. Since only an acceptable LCS is required per the method, the data has been qualified and reported.(LCSD 880-32109/3-A)

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

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

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS01

Lab Sample ID: 890-2747-1
Matrix: Solid
Date Collected: 08/10/22 12:00
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/17/22 00:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/17/22 00:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/17/22 00:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 11:31	08/17/22 00:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/17/22 00:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 11:31	08/17/22 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/16/22 11:31*	*08/17/22 00:10*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/16/22 11:31*	*08/17/22 00:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/17/22 08:24	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			08/16/22 10:53	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 *- *1	50.0		mg/Kg		08/15/22 10:00	08/15/22 16:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 16:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/15/22 10:00*	*08/15/22 16:47*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/15/22 10:00*	*08/15/22 16:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2060**		25.1		mg/Kg			08/17/22 22:22	5

Client Sample ID: FS02

Lab Sample ID: 890-2747-2
Matrix: Solid
Date Collected: 08/11/22 10:00
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*08/16/22 16:10*	*08/17/22 11:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS02

Lab Sample ID: 890-2747-2
Matrix: Solid
Date Collected: 08/11/22 10:00
Date Received: 08/11/22 15:27
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/16/22 16:10*	*08/17/22 11:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/17/22 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**245**		49.9	mg/Kg			08/16/22 10:53	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 *- *1	49.9	mg/Kg		08/15/22 10:00	08/15/22 17:08	1
Diesel Range Organics (Over C10-C28)	**245**		49.9	mg/Kg		08/15/22 10:00	08/15/22 17:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/15/22 10:00	08/15/22 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*110*		*70 - 130*	*08/15/22 10:00*	*08/15/22 17:08*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/15/22 10:00*	*08/15/22 17:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3750**		25.0	mg/Kg			08/17/22 22:29	5

Client Sample ID: FS03

Lab Sample ID: 890-2747-3
Matrix: Solid
Date Collected: 08/11/22 10:10
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/22 16:10	08/17/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/22 16:10	08/17/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/22 16:10	08/17/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/22 16:10	08/17/22 11:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/22 16:10	08/17/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/22 16:10	08/17/22 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*08/16/22 16:10*	*08/17/22 11:40*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/16/22 16:10*	*08/17/22 11:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/17/22 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**132**		50.0	mg/Kg			08/16/22 10:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS03

Date Collected: 08/11/22 10:10
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Lab Sample ID: 890-2747-3

Matrix: Solid

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 *- *1	50.0		mg/Kg		08/15/22 10:00	08/15/22 17:30	1
Diesel Range Organics (Over C10-C28)	**132**		50.0		mg/Kg		08/15/22 10:00	08/15/22 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*08/15/22 10:00*	*08/15/22 17:30*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/15/22 10:00*	*08/15/22 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		25.0		mg/Kg			08/17/22 22:37	5

Client Sample ID: FS04

Date Collected: 08/11/22 10:30
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Lab Sample ID: 890-2747-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 12:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/16/22 16:10*	*08/17/22 12:06*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*08/16/22 16:10*	*08/17/22 12:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/17/22 08:24	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			08/16/22 10:53	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 *- *1	50.0		mg/Kg		08/15/22 10:00	08/15/22 17:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 17:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/15/22 10:00*	*08/15/22 17:51*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/15/22 10:00*	*08/15/22 17:51*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS04
Date Collected: 08/11/22 10:30
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Lab Sample ID: 890-2747-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1690**		25.0		mg/Kg			08/17/22 22:45	5

Client Sample ID: FS05
Date Collected: 08/10/22 14:00
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Lab Sample ID: 890-2747-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*08/16/22 16:10*	*08/17/22 12:32*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/16/22 16:10*	*08/17/22 12:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/17/22 08:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.6**		50.0		mg/Kg			08/16/22 10:53	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 *- *1	50.0		mg/Kg		08/15/22 10:00	08/15/22 18:12	1
Diesel Range Organics (Over C10-C28)	**55.6**		50.0		mg/Kg		08/15/22 10:00	08/15/22 18:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/15/22 10:00*	*08/15/22 18:12*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/15/22 10:00*	*08/15/22 18:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**901**		5.02		mg/Kg			08/17/22 22:53	1

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS06

Lab Sample ID: 890-2747-6
Matrix: Solid
Date Collected: 08/10/22 14:30
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 12:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 12:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/16/22 16:10*	*08/17/22 12:58*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/16/22 16:10*	*08/17/22 12:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/17/22 08:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**267**		49.9		mg/Kg			08/16/22 10:53	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 *- *1	49.9		mg/Kg		08/15/22 10:00	08/15/22 18:34	1
Diesel Range Organics (Over C10-C28)	**267**		49.9		mg/Kg		08/15/22 10:00	08/15/22 18:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/22 10:00	08/15/22 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*08/15/22 10:00*	*08/15/22 18:34*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/15/22 10:00*	*08/15/22 18:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**487**		4.97		mg/Kg			08/17/22 23:01	1

Client Sample ID: FS07

Lab Sample ID: 890-2747-7
Matrix: Solid
Date Collected: 08/11/22 10:40
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 13:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 13:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 13:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 13:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 13:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/16/22 16:10*	*08/17/22 13:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS07

Date Collected: 08/11/22 10:40
Date Received: 08/11/22 15:27
Sample Depth: 0.5

Lab Sample ID: 890-2747-7

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/16/22 16:10*	*08/17/22 13:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/17/22 08:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.3**		49.8		mg/Kg			08/16/22 10:53	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 *- *1	49.8		mg/Kg		08/15/22 10:00	08/15/22 18:55	1
Diesel Range Organics (Over C10-C28)	**58.3**		49.8		mg/Kg		08/15/22 10:00	08/15/22 18:55	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/15/22 10:00	08/15/22 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*111*		*70 - 130*	*08/15/22 10:00*	*08/15/22 18:55*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/15/22 10:00*	*08/15/22 18:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1460**		25.2		mg/Kg			08/17/22 23:09	5

Surrogate Summary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-18047-A-1-F MS	Matrix Spike	105	98
880-18047-A-1-G MSD	Matrix Spike Duplicate	112	108
880-18062-A-1-E MS	Matrix Spike	101	105
880-18062-A-1-F MSD	Matrix Spike Duplicate	56 S1-	64 S1-
890-2747-1	FS01	107	98
890-2747-2	FS02	129	97
890-2747-3	FS03	128	93
890-2747-4	FS04	95	82
890-2747-5	FS05	119	88
890-2747-6	FS06	118	92
890-2747-7	FS07	126	87
LCS 880-32250/1-A	Lab Control Sample	95	99
LCS 880-32273/1-A	Lab Control Sample	108	107
LCSD 880-32250/2-A	Lab Control Sample Dup	103	94
LCSD 880-32273/2-A	Lab Control Sample Dup	106	92
MB 880-32250/5-A	Method Blank	77	0.7 S1-
MB 880-32273/5-A	Method Blank	79	93

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18047-A-1-B MS	Matrix Spike	118	108
880-18047-A-1-C MSD	Matrix Spike Duplicate	117	107
890-2747-1	FS01	115	110
890-2747-2	FS02	110	108
890-2747-3	FS03	108	105
890-2747-4	FS04	107	105
890-2747-5	FS05	106	104
890-2747-6	FS06	108	106
890-2747-7	FS07	111	109
LCS 880-32109/2-A	Lab Control Sample	129	114
LCSD 880-32109/3-A	Lab Control Sample Dup	116	113
MB 880-32109/1-A	Method Blank	110	104

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32250/5-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32250

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/16/22 14:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/16/22 14:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/16/22 14:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 11:31	08/16/22 14:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 11:31	08/16/22 14:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 11:31	08/16/22 14:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*08/16/22 11:31*	*08/16/22 14:01*	*1*
1,4-Difluorobenzene (Surr)	*0.7*	*S1-*	*70 - 130*	*08/16/22 11:31*	*08/16/22 14:01*	*1*

Lab Sample ID: LCS 880-32250/1-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32250

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0996	0.1004		mg/Kg		101	70 - 130		
Toluene			0.0996	0.09472		mg/Kg		95	70 - 130		
Ethylbenzene			0.0996	0.09812		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.199	0.1961		mg/Kg		98	70 - 130		
o-Xylene			0.0996	0.09551		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-32250/2-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32250

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09752		mg/Kg		98	70 - 130	3	35
Toluene			0.100	0.09550		mg/Kg		95	70 - 130	1	35
Ethylbenzene			0.100	0.09921		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1979		mg/Kg		99	70 - 130	1	35
o-Xylene			0.100	0.09639		mg/Kg		96	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-18062-A-1-E MS
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32250

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

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

Lab Sample ID: 880-18062-A-1-E MS
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32250

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

Lab Sample ID: 880-18062-A-1-F MSD
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32250

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	56	S1-	70 - 130
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130

Lab Sample ID: MB 880-32273/5-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32273

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 03:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 03:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 03:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 03:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/22 16:10	08/17/22 03:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/22 16:10	08/17/22 03:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/16/22 16:10	08/17/22 03:16	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/16/22 16:10	08/17/22 03:16	1

Lab Sample ID: LCS 880-32273/1-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32273

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0996	0.09895		mg/Kg		99	70 - 130		
Toluene			0.0996	0.09543		mg/Kg		96	70 - 130		
Ethylbenzene			0.0996	0.09908		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.199	0.1973		mg/Kg		99	70 - 130		
o-Xylene			0.0996	0.09797		mg/Kg		98	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-32273/2-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32273

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0998	0.09959		mg/Kg		100	70 - 130	1	35
Toluene			0.0998	0.09606		mg/Kg		96	70 - 130	1	35

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QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-32273/2-A
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32273

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.0998	0.09774		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1945		mg/Kg		97	70 - 130	1	35
o-Xylene			0.0998	0.09851		mg/Kg		99	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-18047-A-1-F MS
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08457		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.100	0.08279		mg/Kg		83	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08320		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1659		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08146		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-18047-A-1-G MSD
Matrix: Solid
Analysis Batch: 32252

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1042		mg/Kg		104	70 - 130	21	35
Toluene	<0.00200	U	0.100	0.08879		mg/Kg		89	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.08877		mg/Kg		89	70 - 130	6	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1760		mg/Kg		88	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.08715		mg/Kg		87	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 880-32109/1-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32109

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		08/12/22 15:08	08/15/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-32109/1-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32109

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*08/12/22 15:08*	*08/15/22 10:19*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/12/22 15:08*	*08/15/22 10:19*	*1*

Lab Sample ID: LCS 880-32109/2-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32109

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	828.5		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*129*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: LCSD 880-32109/3-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	587.8	*- *1	mg/Kg		59	70 - 130	34	20
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-18047-A-1-B MS
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32109

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 *- *1	999	717.9		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1298		mg/Kg		130	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

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

Lab Sample ID: 880-18047-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32125 — **Prep Batch: 32109**

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 *- *1	999	722.0		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1305	F1	mg/Kg		131	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32161/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/17/22 19:13	1

Lab Sample ID: LCS 880-32161/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.5		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-32161/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32247

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-18043-A-11-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	226		250	478.8		mg/Kg		101	90 - 110		

Lab Sample ID: 880-18043-A-11-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	226		250	478.1		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

GC VOA

Prep Batch: 32250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Total/NA	Solid	5035	
MB 880-32250/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32250/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32250/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18062-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-18062-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Total/NA	Solid	8021B	32250
890-2747-2	FS02	Total/NA	Solid	8021B	32273
890-2747-3	FS03	Total/NA	Solid	8021B	32273
890-2747-4	FS04	Total/NA	Solid	8021B	32273
890-2747-5	FS05	Total/NA	Solid	8021B	32273
890-2747-6	FS06	Total/NA	Solid	8021B	32273
890-2747-7	FS07	Total/NA	Solid	8021B	32273
MB 880-32250/5-A	Method Blank	Total/NA	Solid	8021B	32250
MB 880-32273/5-A	Method Blank	Total/NA	Solid	8021B	32273
LCS 880-32250/1-A	Lab Control Sample	Total/NA	Solid	8021B	32250
LCS 880-32273/1-A	Lab Control Sample	Total/NA	Solid	8021B	32273
LCSD 880-32250/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32250
LCSD 880-32273/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32273
880-18047-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	32273
880-18047-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32273
880-18062-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	32250
880-18062-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32250

Prep Batch: 32273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-2	FS02	Total/NA	Solid	5035	
890-2747-3	FS03	Total/NA	Solid	5035	
890-2747-4	FS04	Total/NA	Solid	5035	
890-2747-5	FS05	Total/NA	Solid	5035	
890-2747-6	FS06	Total/NA	Solid	5035	
890-2747-7	FS07	Total/NA	Solid	5035	
MB 880-32273/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32273/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32273/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18047-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-18047-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Total/NA	Solid	Total BTEX	
890-2747-2	FS02	Total/NA	Solid	Total BTEX	
890-2747-3	FS03	Total/NA	Solid	Total BTEX	
890-2747-4	FS04	Total/NA	Solid	Total BTEX	
890-2747-5	FS05	Total/NA	Solid	Total BTEX	
890-2747-6	FS06	Total/NA	Solid	Total BTEX	
890-2747-7	FS07	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

GC Semi VOA

Prep Batch: 32109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Total/NA	Solid	8015NM Prep	
890-2747-2	FS02	Total/NA	Solid	8015NM Prep	
890-2747-3	FS03	Total/NA	Solid	8015NM Prep	
890-2747-4	FS04	Total/NA	Solid	8015NM Prep	
890-2747-5	FS05	Total/NA	Solid	8015NM Prep	
890-2747-6	FS06	Total/NA	Solid	8015NM Prep	
890-2747-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-32109/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32109/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18047-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18047-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Total/NA	Solid	8015B NM	32109
890-2747-2	FS02	Total/NA	Solid	8015B NM	32109
890-2747-3	FS03	Total/NA	Solid	8015B NM	32109
890-2747-4	FS04	Total/NA	Solid	8015B NM	32109
890-2747-5	FS05	Total/NA	Solid	8015B NM	32109
890-2747-6	FS06	Total/NA	Solid	8015B NM	32109
890-2747-7	FS07	Total/NA	Solid	8015B NM	32109
MB 880-32109/1-A	Method Blank	Total/NA	Solid	8015B NM	32109
LCS 880-32109/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32109
LCSD 880-32109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32109
880-18047-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32109
880-18047-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32109

Analysis Batch: 32246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Total/NA	Solid	8015 NM	
890-2747-2	FS02	Total/NA	Solid	8015 NM	
890-2747-3	FS03	Total/NA	Solid	8015 NM	
890-2747-4	FS04	Total/NA	Solid	8015 NM	
890-2747-5	FS05	Total/NA	Solid	8015 NM	
890-2747-6	FS06	Total/NA	Solid	8015 NM	
890-2747-7	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Soluble	Solid	DI Leach	
890-2747-2	FS02	Soluble	Solid	DI Leach	
890-2747-3	FS03	Soluble	Solid	DI Leach	
890-2747-4	FS04	Soluble	Solid	DI Leach	
890-2747-5	FS05	Soluble	Solid	DI Leach	
890-2747-6	FS06	Soluble	Solid	DI Leach	
890-2747-7	FS07	Soluble	Solid	DI Leach	
MB 880-32161/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32161/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 32161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-32161/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18043-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18043-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2747-1	FS01	Soluble	Solid	300.0	32161
890-2747-2	FS02	Soluble	Solid	300.0	32161
890-2747-3	FS03	Soluble	Solid	300.0	32161
890-2747-4	FS04	Soluble	Solid	300.0	32161
890-2747-5	FS05	Soluble	Solid	300.0	32161
890-2747-6	FS06	Soluble	Solid	300.0	32161
890-2747-7	FS07	Soluble	Solid	300.0	32161
MB 880-32161/1-A	Method Blank	Soluble	Solid	300.0	32161
LCS 880-32161/2-A	Lab Control Sample	Soluble	Solid	300.0	32161
LCSD 880-32161/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32161
880-18043-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	32161
880-18043-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32161

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS01
Date Collected: 08/10/22 12:00
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-1
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			5.00 g	5.00 g	32250	08/16/22 11:31	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 00:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 16:47	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		5			32247	08/17/22 22:22	CH	EET MID

Client Sample ID: FS02
Date Collected: 08/11/22 10:00
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	4.99 g	32273	08/16/22 16:10	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 11:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 17:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		5			32247	08/17/22 22:29	CH	EET MID

Client Sample ID: FS03
Date Collected: 08/11/22 10:10
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	4.98 g	32273	08/16/22 16:10	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 11:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 17:30	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		5			32247	08/17/22 22:37	CH	EET MID

Client Sample ID: FS04
Date Collected: 08/11/22 10:30
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.01 g	32273	08/16/22 16:10	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 12:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS04
Date Collected: 08/11/22 10:30
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-4
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			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 17:51	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		5			32247	08/17/22 22:45	CH	EET MID

Client Sample ID: FS05
Date Collected: 08/10/22 14:00
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-5
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			5.00 g	5.00 g	32273	08/16/22 16:10	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 12:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 18:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		1			32247	08/17/22 22:53	CH	EET MID

Client Sample ID: FS06
Date Collected: 08/10/22 14:30
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-6
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			4.96 g	4.96 g	32273	08/16/22 16:10	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 12:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 18:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		1			32247	08/17/22 23:01	CH	EET MID

Client Sample ID: FS07
Date Collected: 08/11/22 10:40
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	4.97 g	32273	08/16/22 16:10	AJ	EET MID
Total/NA	Analysis	8021B		1			32252	08/17/22 13:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32298	08/17/22 08:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32246	08/16/22 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 18:55	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Client Sample ID: FS07

Date Collected: 08/11/22 10:40
Date Received: 08/11/22 15:27

Lab Sample ID: 890-2747-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	32161	08/15/22 11:27	KS	EET MID
Soluble	Analysis	300.0		5			32247	08/17/22 23:09	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

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 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: EVGSAU 3202-383

Job ID: 890-2747-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2747-1	FS01	Solid	08/10/22 12:00	08/11/22 15:27	0.5
890-2747-2	FS02	Solid	08/11/22 10:00	08/11/22 15:27	0.5
890-2747-3	FS03	Solid	08/11/22 10:10	08/11/22 15:27	0.5
890-2747-4	FS04	Solid	08/11/22 10:30	08/11/22 15:27	0.5
890-2747-5	FS05	Solid	08/10/22 14:00	08/11/22 15:27	0.5
890-2747-6	FS06	Solid	08/10/22 14:30	08/11/22 15:27	0.5
890-2747-7	FS07	Solid	08/11/22 10:40	08/11/22 15:27	0.5

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks HWY	Address:	3122 National Parks HWY
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com,jadams@ensolum.com

Work Order Comments

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

Project Name:	EVGSAU 3202-385	Turn Around	
Project Number:	03D2024044	☐ Routine ☑ Rush	
Project Location:	Lea County, NM	Due Date:	3 Day TAT
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm	
CC #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TNM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.6	
Total Containers:		Corrected Temperature:	5.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS01	S	08.10.22	12:00	0.5'	Comp	1		X	X	X
FS02	S	08.11.22	10:00	0.5'	Comp	1		X	X	X
FS03	S	08.11.22	10:10	0.5'	Comp	1		X	X	X
FS04	S	08.11.22	10:30	0.5'	Comp	1		X	X	X
FS05	S	08.10.22	14:00	0.5'	Comp	1		X	X	X
FS06	S	08.10.22	14:30	0.5'	Comp	1		X	X	X
FS07	S	08.11.22	10:40	1'	Comp	1		X	X	X

890-2747 Chain of Custody

Preservative Codes

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

Sample Comments

Incident Numbers
NAPP2207331663

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $86.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.11.22 1527	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2747-1
SDG Number: Lea County NM

Login Number: 2747
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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: 890-2747-1
SDG Number: Lea County NM

Login Number: 2747
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/15/22 08:36 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 E

NMOCD Notifications

From: Nobui, Jennifer, EMNRD
To: Kalei Jennings
Cc: Bratcher, Mike, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD
Subject: FW: [EXTERNAL] Maverick- Sampling Notification (Week of 08/08/22-08/12/22)
Date: Thursday, August 4, 2022 9:44:03 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: Thursday, August 4, 2022 9:21 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 08/08/22-08/12/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, August 4, 2022 9:20 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Thomas Haigood <Thomas.Haigood@mavresources.com>; Cody Chesshire <Cody.Chesshire@mavresources.com>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 08/08/22-08/12/22)

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 August 8, 2022.

Monday:

Tuesday:

Wednesday:

- EVGSAU 3202-385 / NAPP2207331663

Thursday:

- Baish B Battery / NAPP2211143447

Friday:

- Baish B Battery / NAPP2211143447

Thank you,

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

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 07/18/22-07/22/22)
Date: Thursday, July 14, 2022 11:06:18 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: Thursday, July 14, 2022 10:39 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 07/18/22-07/22/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, July 14, 2022 10:37 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 07/18/22-07/22/22)

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 18, 2022.

Monday:

Tuesday:

Wednesday:

- MCA 83 / NAPP2205440227

Thursday:

- EVGSAU 3202-385 / NAPP2207331663

Friday:

- EVGSAU 3202-385 / NAPP2207331663

Thank you,

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

From: Beauvais, Charles R
To: Kalei Jennings; Kaushik, Rahul
Subject: FW: [EXTERNAL] Extension Request- EVGSAU 3202-385 (Incident Number NAPP2207331663)
Date: Tuesday, May 31, 2022 2:45:03 PM
Attachments: image001.png

[**EXTERNAL EMAIL**]

FYI

From: CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Sent: Tuesday, May 31, 2022 11:51 AM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: Re: [EXTERNAL] Extension Request- EVGSAU 3202-385 (Incident Number NAPP2207331663)

The remediation plan or closure report that is due for this incident was set for **05/28/2022**. Your request for an extension to **August 26, 2022 (90 days)** is approved. Please keep the BLM updated if any problems prevent remediation for the site.

If you need anything further, please let me know.

Crisha A. Morgan |Certified - Environmental Protection Specialist | Program Officer|COR| Spills Coordinator| Orphaned Well POC Lead

Bureau of Land Management | Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Cell 575-200-8648 | Office 575-234-5987 |camorgan@blm.gov

From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Sent: Wednesday, May 25, 2022 2:15 PM

To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: [EXTERNAL] Extension Request- EVGSAU 3202-385 (Incident Number NAPP2207331663)

To Whom It May Concern,

COP is requesting an extension for the current deadline of May 28, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at EVGSAU 3202-385 (Incident Number NAPP2207331663). The release was discovered on February 27, 2022 and additional remediation activities are required. In order to complete remediation activities and prepare a remediation work plan or closure report, COP requests a 90-day extension of this deadline until August 26, 2022.

Respectfully,

Charles R. Beauvais II
Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.

From: Beauvais, Charles R
To: Kalei Jennings
Subject: FW: [EXTERNAL] Extension Request- EVGSAU 3202-385 (Incident Number NAPP2207331663)
Date: Thursday, May 26, 2022 11:48:22 AM
Attachments: image002.jpg
image003.png

[**EXTERNAL EMAIL**]

FYI

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Thursday, May 26, 2022 11:10 AM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: RE: [EXTERNAL] Extension Request- EVGSAU 3202-385 (Incident Number NAPP2207331663)

Please send all future extension requests to the OCD Enviro email box at OCD.Enviro@state.nm.us

RE: Incident #**NAPP2207331663**

Charles,

Your request for an extension to **August 26th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>

Sent: Wednesday, May 25, 2022 2:16 PM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: [EXTERNAL] Extension Request- EVGSAU 3202-385 (Incident Number NAPP2207331663)

To Whom It May Concern,

COP is requesting an extension for the current deadline of May 28, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at EVGSAU 3202-385 (Incident Number NAPP2207331663). The release was discovered on February 27, 2022 and additional remediation activities are required. In order to complete remediation activities and prepare a remediation work plan or closure report, COP requests a 90-day extension of this deadline until August 26, 2022.

Respectfully,

Charles R. Beauvais **II**
Senior Environmental Engineer **|** Environmental Operations **| ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

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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	NAPP2207331663
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		

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207331663
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: Jocelyn Harimon Date: 03/14/2022

L48 Spill Volume Estimate Form

Incident ID (n#)	EVGSAU 3202-385
Asset Area:	BUCKEYE
Release Discovery Date & Time:	2-27-22 11:30AM
Release Type:	Oil Mixture
Provide any known details about the event:	LEAK ON 2 7/8 STEEL FLOW LINE BY SATELLITE 3 ON WELL 3202-385

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	35.0	6.0	1.50	15.12%	4.673	0.706	18.00%	0.127	0.579
Rectangle B	28.0	18.0	1.50	15.12%	11.214	1.696	18.00%	0.305	1.390
Rectangle C	20.0	15.0	2.00	15.12%	8.900	1.346	18.00%	0.242	1.103
Rectangle D	21.0	10.0	2.00	15.12%	6.230	0.942	18.00%	0.170	0.772
Rectangle E	10.0	6.0	2.00	15.12%	1.780	0.269	18.00%	0.048	0.221
Rectangle F	27.0	1.0	1.00	15.12%	0.401	0.061	18.00%	0.011	0.050
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:		5.019		0.903	4.116

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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: 89906
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/14/2022

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207331663
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?	50-100 feet 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	NAPP2207331663
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: 08/31/2022

email: bryce.wagoner@mavresouces.com Telephone: 928-241-1862

OCD Only

Received by: Date:

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207331663
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bryce Wagoner Title: HSE Specialist

Signature: Date: 08/31/2022

email: bryce.wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 08/31/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 138515

COMMENTS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 138515
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
jharimon	C-141 closure pages missing	8/30/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 138515

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 138515
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/31/2022