

November 7, 2022

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

Re: Closure Request Federal 9 Com 001 Incident Number NAPP2218848721 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the Federal 9 Com 001 (Site; Figure 1). The purpose of the soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water on pad. The release was caused by lightning striking the produced water tank. Based on site assessment, excavation activities, and laboratory analytical results from soil sampling events, COG is reqesting closure for Incident Number NAPP2218848721.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 9, Township 24 South, Range 34 East, in Lea County, New Mexico (32.2375° N, 103.4726° W) and is associated with oil and gas exploration and production operations on privately owned surface managed by the Quail Ranch, LLC.

On July 4, 2022, lightning struck the produced water tank and caused the release of approximately 26.56 barrels (bbls) of produced water into the containment and onto the surrounding well pad. Approximately 0.284 bbls of produced water were recovered as a fire burned off most of the standing fluid. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on July 6, 2022 and submitted a Release Notification Form C-141 (Form C-141) on July 7, 2022. The release was assigned Incident Number NAPP2218848721.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Federal 9 Com 001

Depth to groundwater at the Site is estimated to be between 51 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 United States Geologic Survey (USGS) permitted well 321402103275001, located approximately 2,960 southeast of the Site. The groundwater well has a reported depth to groundwater of 72 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location is 3,535 feet above mean sea level (amsl), which is approximately 20-feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record are included in Appendix B

The closest continuously flowing or significant watercourse to the Site is an freshwater emergent wetland, located approximately 6,062 feet southeast 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, and wetland. The Site is greater than 1,000 feet of a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum hydrocarbons (TPH): 2,500 mg/kg
- Desiel Range Organics (DRO) TPH + Gasoline Range Organics (GRO) TPH: 1,000 mg/kg
- Chloride: 10,000 mg/kg

COG plans to reclaim this Site in the near future therefore, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the release area on pad that was impacted by the release, per NMAC 19.15.29.13.D (1).

INITIAL SITE ASSESSMENT ACTIVITIES

On July 11, 2022, Ensolum evaluated the release based on information provided on the Form C-141 and visual observations. Ensolum personnel found that the liner was damaged from the fire and soil staining was observed beneath the lined area. Ensolum collected soil samples SS01 through SS04 outside the release area from a depth of 0.5 feet bgs to confirm absence of impacted soil outside of the containment. On August 23, 2022, Ensolum personel returned to the Site to collect soil samples within the containment after the onsite equipment and liner were removed. A hand auger was used to advance a pothole and collect soil samples PH01 and PH01A from 0.2 feet and 1 foot bgs, respectively.

All soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photograpgic log is included in Appendix C.



The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported 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 soil sample PH01 indicated at least one constituent was not compliant with the reclamation requiremnt for TPH. Laboratory analytical results for soil samples SS01 through SS04 and PH01A indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the reclamation requirement and the most stringent standards of Table I. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

EXCAVATION ACTIVITIES

On September 21, 2022, Ensolum oversaw the excavation of impacted soil from the release area as indicated by visible staining and laboratory analytical results from delineation soil sampling. Excavation activities were performed via hand shoveling and back-hoe to depths ranging from 0.5 feet to 2 feet bgs. To direct excavation activities, soil was field screened for VOCs and chloride. Photographic documentation is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor samples. Excavation composite soil samples FS01 through FS10 were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples were handled and analyzed as previously described. The excavation extents and excavation soil samples locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3.

Analytical results from confirmation soil samples FS05, FS07, FS08, and FS10 indicated concentations of TPH and/or chloride exceeded the NMOCD reclamation requirement. As a result, additional excavation in the vicinty of the four composite sample locations was completed on October 7, 2022. Follow-up confirmation soil samples FS05A, FS07A, FS08A, and FS10A were collected a depths ranging from 1-foot to 2-feet bgs to confirm residual impacts to soil had been adequately remediated. Similarly, analytical results from confirmation soil samples FS05A and FS07A indicated concentations of TPH exceeded the reclamation requirement and additional soil was removed from those areas. Confirmation soil samples FS05B and FS07B were collected at 1.25-feet bgs. Laboratory analytical results for excavation floor samples collected at the terminal depth of each composite soil sample location indicated all TPH and chloride concentrations were compliant with the reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

The total footprint of the excavation was approximately 1,900 square feet. A total of approximately 88 cubic yards of impacted soil were removed during the excavation. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled.



CLOSURE REQUEST

Based on confirmation soil sample laboratory analytical results compliant with the reclamation requirement, excavation activities appear to have successfully remediated the produced water impacts at the Site. Delineation soil samples collected outside the release extent successfully define the edge of the release. COG believes these remedial actions have been protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2218848721. The Final C-141 is included in Appendix A and required 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.

Ushley L. ager

Ashley Ager, PG

Program Director

Sincerely, **Ensolum, LLC**

alei Jennings

Kalei Jennings Senior Scientist

cc: Charles Beauvais, COG Operating, LLC Quail Ranch, LLC

Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1Soil 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







FIGURES

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Received by OCD: 11/15/2022 8:28:18 PM







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TABLE

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				F	TABLE 1LE ANALYTICAFederal 9 Com 00OG Operating, LICounty, New Me	l LC				
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	Reclamation Rec	quirement	10	50	NE	NE	NE	NE	100	600
				Lateral I	Delineation Soil	Samples				
SS01	07/11/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6.58
SS02	07/11/2022	0.5	<0.00198	<0.00397	<50.0	71.7	<50.0	71.7	71.7	24.2
SS03	07/11/2022	0.5	<0.00199	0.00505	<49.9	69.7	<49.9	69.7	69.7	41.5
SS04	07/11/2022	0.5	<0.00200	<0.00399	<49.9	60.0	<49.9	60.0	60.0	21.2
	Preliminary Assesment Soil Samples									
PH01	08/23/2022	0.2	<0.00199	<0.00398	<50.0	151	121	151	272	401
PH01A	08/23/2022	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	28.8
				Exc	avation Soil Sam	ples				
FS01	09/21/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	124
FS02	09/21/2022	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	27.9
FS03	09/21/2022	0.5	<0.00199	<0.00398	<50.0	56.5	<50.0	56.5	56.5	59.6
FS04	09/21/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	33.5
FS05	09/21/2022	0.5	<0.00199	<0.00398	<49.9	289	51.2	289	340	708
FS05A	10/07/2022	1	<0.00200	<0.00399	<50.0	757	135	892	892	127
FS05B	10/18/2022	1.25	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	74.7
FS06	09/21/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	39.3
FS07	09/21/2022	1	<0.00202	<0.00404	<50.0	260	69.6	260	330	50.4
FS07A	10/07/2022	1.5	<0.00200	<0.00399	<49.9	180	<49.9	180	180	121
FS07B	10/18/2022	1.75	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.3
FS08	09/21/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	838
FS08A	10/07/2022	1.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	98.1
FS09	09/21/2022	1	<0.00199	<0.00398	<50.0	95.2	<50.0	95.2	95.2	155
FS10	09/21/2022	1.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	983
FS10A	10/07/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	388

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

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

ENSOLUM



APPENDIX A

Final C141

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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

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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	

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

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

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		

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Incident ID	
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice 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 impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

The source of the release has been stopped.

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: _ Partiane Jopange	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date: 07/07/2022

Received by OCD: 117	15/2022-8	528218V	PM			48 Spill Vo	iume Estima	te Form	Page 14 of 150
		Facility	Name & Number:	FEDERAL 9 COM #1 TB					
			Asset Area:	NDBE NAPP2218848721					
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				Produced Water					
Provide	e any kno	wn deta	ils about the event:	AND DUDNED ITCE	LE OUT SOMET	WE DUDING TH	ENICHT TANK U	AD 26 ECODI C ANI V 2	ADDI O DEMAINED
							- On Pad Surfac		
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	20.0	5.0	0.25	6	100.000	0.003	0.062	0.000	0.062
Rectangle B	20.0	6.0	0.50	4	120.000	0.010	0.223	0.001	0.223
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Rectangle D	-				0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E	1				0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
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Rectangle J

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L48 Spill Volume Estimate Form

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Total Volume Release:

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0.284

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Oil Conservation Division

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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?	<u>51-100 ft bgs</u>
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
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

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			Incident ID	NAPP2218848721
Page 4	Oil Conservation Division	1	District RP	
			Facility ID	
			Application ID	
regulations all operators are requ public health or the environment failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name:Charles Signature:Charles 72 email:Charles.R.Beauva	ion given above is true and complete to the ired to report and/or file certain release no. The acceptance of a C-141 report by the ond remediate contamination that pose a the 2-141 report does not relieve the operator Beauvais R. Beauvais 99 ais@conocophillips.com	otifications and perform co e OCD does not relieve the meat to groundwater, surfa of responsibility for comp 	orrective actions for rele e operator of liability shace water, human health liance with any other fea ironmental Engineer	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: Jocelyn Har	imon	Date:11	/16/2022	

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Oil Conservation Division

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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

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: _____Charles Beauvais ______ Title: ____ Senior Environmental Engineer Signature: ______ *Charles R. Beauvais ??* Date: _____ 11/07/2022 email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043 **OCD Only**
 Received by:
 Jocelyn Harimon
 Date:
 11/16/2022
 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.



APPENDIX B

Referenced Well Record

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V

 United States
 GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321402103275001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321402103275001 24S.34E.10.11212

Lea County, New Mexico Latitude 32°14'02", Longitude 103°27'50" NAD27 Land-surface elevation 3,536 feet above NAVD88 The depth of the well is 83 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats	_
Table of data	
Tab-separated data	
Graph of data	
Reselect period	1

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-04-27		D	62610		3462.62	NGVD29	1	Z		
1953-04-27		D	62611		3464.25	NAVD88	1	Z		
1953-04-27		D	72019	71.75			1	Z		
1955-06-03		D	62610		3462.46	NGVD29	1	Z		
1955-06-03		D	62611		3464.09	NAVD88	1	Z		
1955-06-03		D	72019	71.91			1	Z		

Ξx	pl	ar	۱a	ti	o	n

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Released to Imaging: 12/14/2022 10:39:19 AM

Received by OCD: 11/15/2022 8:28:18 PM

Section

Source of measurement

Water-level approval status

Status

Approved for publication -- Processing and review completed.

А

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> Data Tips Explanation of terms Subscribe for system changes <u>News</u>

Accessibility FOIA Policies and Notices Privacy U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2022-07-08 15:08:22 EDT 0.4 0.33 nadww01

USA.gov



APPENDIX C

Photographic Log





APPENDIX D

Laboratory Analytical Report

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2537-1

Laboratory Sample Delivery Group: 0302024073 Client Project/Site: Fed 9 Com

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 7/18/2022 3:00:48 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.

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	Definitions/Glossary	
Client: Ensolum Project/Site: Fe		
Qualifiers		_
GC VOA		
Qualifier	Qualifier Description	
 F1	MS and/or MSD recovery exceeds control limits.	_
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	_
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	_
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	_
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
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: Fed 9 Com Job ID: 890-2537-1 SDG: 0302024073

Job ID: 890-2537-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2537-1

Receipt

The samples were received on 7/11/2022 4:15 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 15.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-29796 and analytical batch 880-29885 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-29796 and analytical batch 880-29885. The associated laboratory control sample (LCS) met acceptance criteria.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29652 and analytical batch 880-29696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

Result Qualifier

<0.00199 U F1

<0.00199 UF1

<0.00199 UF1

<0.00398 UF1

<0.00199 UF1

<0.00398 UF1

106

101

<0.00398 U

Result Qualifier

Qualifier

%Recovery

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130 70 - 130

RL

0.00398

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

07/15/22 08:47

07/15/22 08:47

07/15/22 08:47

07/15/22 08:47

07/15/22 08:47

07/15/22 08:47

Prepared

07/15/22 08:47

07/15/22 08:47

Prepared

Job ID: 890-2537-1 SDG: 0302024073

Client Sample ID: SS01

Date Collected: 07/11/22 10:45 Date Received: 07/11/22 16:15

Sample Depth: 0.5'

Project/Site: Fed 9 Com

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-2537-1

Analyzed

07/17/22 18:29

07/17/22 18:29

07/17/22 18:29

07/17/22 18:29

07/17/22 18:29

07/17/22 18:29

Analyzed

07/17/22 18:29

07/17/22 18:29

Analyzed

07/18/22 15:14

Matrix: Solid

Dil Fac

1

1

1

1

1

1

Dil Fac

Dil Fac

5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/15/22 10:26	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 18:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9	mg/Kg		07/13/22 11:07	07/14/22 18:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			07/13/22 11:07	07/14/22 18:57	1
o-Terphenyl	78		70 - 130			07/13/22 11:07	07/14/22 18:57	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.58		5.04	mg/Kg			07/16/22 11:58	1
Client Sample ID: SS02						Lab Sar	nple ID: 890-2	2537-2
ate Collected: 07/11/22 10:50							Matri	x: Solid
Date Received: 07/11/22 16:15								
Sample Depth: 0.5'								
Method: 8021B - Volatile Organic	Compounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	ma/Ka		07/15/22 08:47	07/17/22 18:56	1

Analyte	Result	Qualifier	RL	Unit	U	Prepared	Analyzed	DIFac
Benzene	<0.00198	U	0.00198	mg/Kg		07/15/22 08:47	07/17/22 18:56	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/15/22 08:47	07/17/22 18:56	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/15/22 08:47	07/17/22 18:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/15/22 08:47	07/17/22 18:56	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/15/22 08:47	07/17/22 18:56	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/15/22 08:47	07/17/22 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			07/15/22 08:47	07/17/22 18:56	1

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Client Sample Results

Job ID: 890-2537-1 SDG: 0302024073

Lab Sample ID: 890-2537-2

Matrix: Solid

5

Date Collected: 07/11/22 10:50 Date Received: 07/11/22 16:15

Client Sample ID: SS02

Project/Site: Fed 9 Com

Sample Depth: 0.5'

Client: Ensolum

Method: 8021B - Volatile Organi	c Compounds	(GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) 	101		70 - 130			07/15/22 08:47	07/17/22 18:56	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/18/22 15:14	1
- Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.7		50.0	mg/Kg			07/15/22 10:26	1
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 19:18	1
Diesel Range Organics (Over C10-C28)	71.7	*_	50.0	mg/Kg		07/13/22 11:07	07/14/22 19:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			07/13/22 11:07	07/14/22 19:18	1
o-Terphenyl	95		70 - 130			07/13/22 11:07	07/14/22 19:18	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.2		4.99	mg/Kg			07/16/22 12:07	1
lient Sample ID: SS03						Lab San	nple ID: 890-	2537-3
ate Collected: 07/11/22 10:55							Matri	ix: Solid
Date Received: 07/11/22 16:15								
Sample Depth: 0.5'								
Method: 8021B - Volatile Organi	c Compounds	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/15/22 08:47	07/17/22 19:24	1
Delizelle								
Toluene	<0.00199	U	0.00199	mg/Kg		07/15/22 08:47	07/17/22 19:24	1
	<0.00199 <0.00199		0.00199 0.00199	mg/Kg mg/Kg		07/15/22 08:47 07/15/22 08:47	07/17/22 19:24 07/17/22 19:24	
Toluene Ethylbenzene				0 0				1
Toluene	<0.00199	U	0.00199	mg/Kg		07/15/22 08:47	07/17/22 19:24	1 1 1 1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 07/15/22 08:47 07/17/22 19:24 105 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 97 70 - 130 07/15/22 08:47 07/17/22 19:24 Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed **Total BTEX** 0.00505 0.00398 mg/Kg 07/18/22 15:14

_ Method: 8015 NM - Diesel Range C	Organics (DRC)) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.7		49.9	mg/Kg			07/15/22 10:26	1

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Dil Fac

Dil Fac

1

1

1

Client Sample Results

Job ID: 890-2537-1 SDG: 0302024073

Matrix: Solid

Lab Sample ID: 890-2537-3

07/16/22 12:16

Lab Sample ID: 890-2537-4

Client Sample ID: SS03

Date Collected: 07/11/22 10:55 Date Received: 07/11/22 16:15

Sample Depth: 0.5'

Project/Site: Fed 9 Com

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 19:38	1
Diesel Range Organics (Over C10-C28)	69.7	*_	49.9	mg/Kg		07/13/22 11:07	07/14/22 19:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			07/13/22 11:07	07/14/22 19:38	1
o-Terphenyl	87		70 - 130			07/13/22 11:07	07/14/22 19:38	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

41.5 4.98 mg/Kg

Client Sample ID: SS04

Date Collected: 07/11/22 11:00 Date Received: 07/11/22 16:15

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/15/22 08:47	07/17/22 19:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/15/22 08:47	07/17/22 19:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/15/22 08:47	07/17/22 19:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/15/22 08:47	07/17/22 19:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/15/22 08:47	07/17/22 19:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/15/22 08:47	07/17/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			07/15/22 08:47	07/17/22 19:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130			07/15/22 08:47	07/17/22 19:52	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			07/18/22 15:14	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.0		49.9	mg/Kg			07/15/22 10:26	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 19:59	1
Diesel Range Organics (Over C10-C28)	60.0	*_	49.9	mg/Kg		07/13/22 11:07	07/14/22 19:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			07/13/22 11:07	07/14/22 19:59	1
			70 - 130			07/13/22 11:07	07/14/22 19:59	

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1

		Client	Sample Res	sults					
Client: Ensolum Project/Site: Fed 9 Com							Job ID: 890 SDG: 0302		2
Client Sample ID: SS04 Date Collected: 07/11/22 11:00						Lab Sa	mple ID: 890- Matri	2537-4 x: Solid	
Date Received: 07/11/22 16:15 Sample Depth: 0.5'									4
Method: 300.0 - Anions, Ion Chron Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	21.2		5.00	mg/Kg			07/16/22 12:25	1	
									8
									9
									13

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Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		
890-2537-1	SS01	106	101		1
890-2537-1 MS	SS01	100	106		
890-2537-1 MSD	SS01	77	90		- 2
890-2537-2	SS02	107	101		
890-2537-3	SS03	105	97		
890-2537-4	SS04	110	98		
LCS 880-29796/1-A	Lab Control Sample	102	106		
LCSD 880-29796/2-A	Lab Control Sample Dup	108	108		
MB 880-29796/5-A	Method Blank	78	92		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16861-A-1-B MS	Matrix Spike	89	83	
880-16861-A-1-C MSD	Matrix Spike Duplicate	81	73	
890-2537-1	SS01	79	78	
890-2537-2	SS02	94	95	
890-2537-3	SS03	84	87	
890-2537-4	SS04	84	86	
LCS 880-29652/2-A	Lab Control Sample	120	102	
LCSD 880-29652/3-A	Lab Control Sample Dup	124	108	
MB 880-29652/1-A	Method Blank	86	95	
Surrogate Legend				

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

Prep Type: Total/NA

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QC Sample Results

Job ID: 890-2537-1 SDG: 0302024073

Project/Site: Fed 9 Com

Client: Ensolum

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2979	96/5-A							Client S	ample ID: Meth	
Matrix: Solid									Prep Type:	Total/N
Analysis Batch: 29885									Prep Bate	:h: 2979
	1	MB MB								
Analyte	Res	ult Qualifier	RL		Unit		D	Prepared	Analyzed	Dil Fa
Benzene	<0.002	00 U	0.00200		mg/K	g		7/15/22 08:47	07/17/22 18:01	
Toluene	<0.002	00 U	0.00200		mg/K	g	C	7/15/22 08:47	07/17/22 18:01	
Ethylbenzene	<0.002	00 U	0.00200		mg/K	g	C	7/15/22 08:47	07/17/22 18:01	
m-Xylene & p-Xylene	<0.004	00 U	0.00400		mg/K	g	C	7/15/22 08:47	07/17/22 18:01	
o-Xylene	<0.002	00 U	0.00200		mg/K	g	C	7/15/22 08:47	07/17/22 18:01	
Xylenes, Total	<0.004	00 U	0.00400		mg/K	g	C	7/15/22 08:47	07/17/22 18:01	
	1	MB MB								
Surrogate	%Recove		Limits					Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		78	70 - 130				(7/15/22 08:47	7 07/17/22 18:01	
1,4-Difluorobenzene (Surr)		92	70 _ 130				C	7/15/22 08:47	7 07/17/22 18:01	
Lab Sample ID: LCS 880-297	/96/1-A						Clie	ent Sample	ID: Lab Contro	
Matrix: Solid									Prep Type:	
Analysis Batch: 29885									Prep Bate	:h: 2979
			Spike		LCS				%Rec	
Analyte			Added		Qualifier	Unit		D %Rec	Limits	
Benzene			0.100	0.1156		mg/Kg		116	70 - 130	
Toluene			0.100	0.09972		mg/Kg		100	70 - 130	
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene			0.200	0.2034		mg/Kg		102	70 - 130	
o-Xylene			0.100	0.1062		mg/Kg		106	70 - 130	
	LCS L	.cs								
Surrogate	%Recovery G	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							
Lab Cample ID: LCCD 990-00	0700/0 4					C 1			ah Control Cor	
Lab Sample ID: LCSD 880-29	9790/2-A					CI	ent S	ample ID:	Lab Control Sar	
Matrix: Solid									Prep Type:	
Analysis Batch: 29885									Prep Bate	
			Spiko	1 090					% Pac	
Analyta			Spike		LCSD Qualifier	Unit			%Rec	RP
			Added	Result	LCSD Qualifier	Unit ma/Ka		D %Rec	Limits RF	RP 2D Lim
Benzene			Added	Result 0.1151		mg/Kg		115	Limits RF	RP 2D Lim 0 3
Benzene Toluene			Added 0.100 0.100	Result 0.1151 0.08663		mg/Kg mg/Kg		115 87	Limits RF 70 - 130 70 - 130	PD Lim 0 3 14 3
Benzene Toluene Ethylbenzene			Added 0.100 0.100 0.100	Result 0.1151 0.08663 0.07643		mg/Kg mg/Kg mg/Kg		115 87 76	Limits RF 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene			Added 0.100 0.100 0.100 0.200	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3 33 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene			Added 0.100 0.100 0.100	Result 0.1151 0.08663 0.07643		mg/Kg mg/Kg mg/Kg		115 87 76	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	LCSD L		Added 0.100 0.100 0.100 0.200 0.100	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3 33 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	%Recovery		Added 0.100 0.100 0.100 0.100 0.200 0.100 Limits	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3 33 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)			Added 0.100 0.100 0.100 0.200 0.100 Limits 70 - 130	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3 33 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	%Recovery		Added 0.100 0.100 0.100 0.100 0.200 0.100 Limits	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP D Lim 0 3 14 3 31 3 33 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery 108 108		Added 0.100 0.100 0.100 0.200 0.100 Limits 70 - 130	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	RP 0 3 14 3 31 3 33 3 31 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2537-1 N	%Recovery 108 108		Added 0.100 0.100 0.100 0.200 0.100 Limits 70 - 130	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70	RP 0 3 14 3 31 3 33 3 31 3 32 3
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2537-1 N Matrix: Solid	%Recovery 108 108		Added 0.100 0.100 0.100 0.200 0.100 Limits 70 - 130	Result 0.1151 0.08663 0.07643 0.1457		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70	RP 0 3 14 3 31 3 33 3 31 3 31 3 32 Total/N
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2537-1 N Matrix: Solid Analysis Batch: 29885	%Recovery 108 108	Qualifier	Added 0.100 0.100 0.100 0.200 0.100 Limits 70 - 130	Result 0.1151 0.08663 0.07643 0.1457 0.07784		mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70 70 - 130 70	RP 0 3 14 3 31 3 33 3 31 3 31 3 32 Total/N
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> <i>1,4-Difluorobenzene (Surr)</i> Lab Sample ID: 890-2537-1 N Matrix: Solid	%Recovery 0 108 108	Qualifier	Added 0.100 0.100 0.100 0.200 0.100 0.200 0.100 0.201 0.100 0.200 0.100 0.200 0.100 0.200 0.100 Description 70 - 130 70 - 130	Result 0.1151 0.08663 0.07643 0.1457 0.07784	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73	Limits RF 70 - 130 70 - 130	RP 0 3 14 3 31 3 33 3 31 3 31 3 32 Total/N
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2537-1 N Matrix: Solid Analysis Batch: 29885	<u>%Recovery</u> 108 108 MS Sample S	Qualifier	Added 0.100 0.100 0.100 0.200 0.100 0.200 0.100 0.200 0.100 0.200 0.100 0.200 0.100 Description Description Spike	Result 0.1151 0.08663 0.07643 0.1457 0.07784	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		115 87 76 73 78	Limits RF 70 - 130 70 - 130	RP 0 3 14 3 31 3 33 3 31 3 31 3 32 Total/N

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Client: Ensolum

Project/Site: Fed 9 Com

QC Sample Results

Job ID: 890-2537-1 SDG: 0302024073

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

Lab Sample ID: 890-2537-1 MS	i										Client Sar		
Matrix: Solid												уре: То	
Analysis Batch: 29885												Batch:	2979
	Sample			Spike		MS					%Rec		
Analyte	Result		ifier	Added		Qualifier	Unit		_ <u>D</u> _	%Rec	Limits		
thylbenzene	<0.00199	UF1		0.100	0.06821	F1	mg/Kg			68	70 - 130		
n-Xylene & p-Xylene	<0.00398	U F1		0.200	0.1290	F1	mg/Kg			64	70 - 130		
-Xylene	<0.00199	U F1		0.100	0.06830	F1	mg/Kg			68	70 - 130		
	MS	MS											
Surrogate	%Recovery	Qual	ifier	Limits									
4-Bromofluorobenzene (Surr)	100			70 - 130									
,4-Difluorobenzene (Surr)	106			70 - 130									
_ab Sample ID: 890-2537-1 MS	D										Client Sar	nple ID:	SS0
Matrix: Solid											Prep T	ype: To	tal/N
Analysis Batch: 29885												Batch:	
	Sample	Sami	ple	Spike	MSD	MSD					%Rec		RF
Analyte	Result			Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene		U F1		0.0998	<0.00200		mg/Kg			0 -	70 - 130	NC	3
oluene		UF1		0.0998	<0.00200	U F1	mg/Kg			0	70 - 130	NC	3
Ethylbenzene		UF1		0.0998	<0.00200	U F1				0	70 - 130 70 - 130	NC	3
							mg/Kg						
n-Xylene & p-Xylene	< 0.00398			0.200		U F1	mg/Kg			0	70 - 130	NC	:
-Xylene	<0.00199	U F 1		0.0998	<0.00200	U F1	mg/Kg			0	70 - 130	NC	3
	MSD	MSD											
Surrogate	%Recovery	Qual	ifier	Limits									
	%Recovery 77	Qual	ifier	Limits 70 - 130									
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	77 90			70 ₋ 130 70 ₋ 130									
I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel _ab Sample ID: MB 880-29652/ Matrix: Solid	77 90 I Range Or		ics (DR	70 ₋ 130 70 ₋ 130					c	lient S		Method ype: To Batch:	tal/N
I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel Lab Sample ID: MB 880-29652/ Matrix: Solid Analysis Batch: 29696	77 90 I Range Or 11-A	gan	ics (DR	70 - 130 70 - 130 O) (GC)	21.	linit					Prep T Prep	ype: To Batch:	tal/N. 2965
I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel _ab Sample ID: MB 880-29652/ Matrix: Solid Analysis Batch: 29696	77 90 I Range Or 11-A Re	gan	IICS (DR MB Qualifier	70 - 130 70 - 130 O) (GC)	<u>.</u>	<u>Unit</u>		D	Pre	pared	Prep T Prep Analyz	ype: To Batch:	tal/N 2965
I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel Lab Sample ID: MB 880-29652/ Matrix: Solid Analysis Batch: 29696 Analyte Basoline Range Organics GRO)-C6-C10	77 90 I Range Or 11-A <u>Re</u> <	MB ssult 50.0	MB Qualifier U	70 - 130 70 - 130 O) (GC) F 50	.0	mg/K	-	<u>D</u>	Pre 07/13/	pared /22 11:06	Prep T Prep Analyz 07/14/22	ype: To Batch: ed 11:11	tal/N 2965
I. 4-Difluorobenzene (Surr) I. 4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel Lab Sample ID: MB 880-29652/ Matrix: Solid Analysis Batch: 29696 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	77 90 I Range Or 11-A <u>Re</u> <	gan MB esult	MB Qualifier U	70 - 130 70 - 130 O) (GC)	.0		-	<u>D</u>	Pre 07/13/	pared	Prep T Prep Analyz 07/14/22	ype: To Batch: ed 11:11	tal/N 2965
I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel Lab Sample ID: MB 880-29652/ Matrix: Solid Analysis Batch: 29696 Analyte Basoline Range Organics GRO)-C6-C10	77 90 I Range Or 11-A 	MB ssult 50.0	MB Qualifier U	70 - 130 70 - 130 O) (GC) F 50	.0	mg/K	g	<u>D</u>	Pre 07/13/ 07/13/	pared /22 11:06	Prep T Prep 07/14/22 07/14/22	ype: To Batch: ed 11:11 11:11	tal/N
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Diesel .ab Sample ID: MB 880-29652/ Matrix: Solid Analysis Batch: 29696 	77 90 I Range Or 11-A 	MB esult 50.0 50.0 50.0 <i>MB</i>	ics (DR MB Qualifier U U U MB	70 - 130 70 - 130 O) (GC) 	.0	mg/K	g	<u>D</u>	Pre 07/13/ 07/13/	pared (22 11:06 (22 11:06	Prep T Prep Analyz 07/14/22 07/14/22	ype: To Batch: ed 11:11 11:11	tal/N 2965
Analyte Casel Range Organics (Over C28-C36)	77 90 I Range Or 11-A 	MB esult 50.0 50.0 50.0 <i>MB</i>	MB Qualifier U U	70 - 130 70 - 130 O) (GC) 	.0	mg/K	g	<u>D</u>	Pre 07/13/ 07/13/ 07/13/	pared (22 11:06 (22 11:06	Prep T Prep Analyz 07/14/22 07/14/22	ype: To Batch: ed 11:11 11:11 11:11	tal/N 2965
Analyte GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	77 90 I Range Or 11-A 	MB esult 50.0 50.0 50.0 <i>MB</i>	ics (DR MB Qualifier U U U MB	70 - 130 70 - 130 O) (GC) 	.0	mg/K	g	<u>D</u>	Pre 07/13/ 07/13/ 07/13/ Pre	pared 22 11:06 22 11:06 22 11:06	Prep T Prep 07/14/22 07/14/22 07/14/22 07/14/22 Analyz	Type: To Batch: ed 11:11 11:11 11:11 ed ed	tal/N 2965 Dil Fa

Lab Sample ID: LCS 880-29652/2-A Matrix: Solid Prep Type: Total/NA Analysis Batch: 29696 Spike LCS LCS %Rec Analyto sult Qualifia hoppy Unit Limit

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1173		mg/Kg		117	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1102		mg/Kg		110	70 - 130	
C10-C28)								

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Prep Batch: 29652

QC Sample Results

Client: Ensolum Project/Site: Fed 9 Com

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

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Lab Sample ID: LCS 880-290 Matrix: Solid	652/2-A						Client	t Sample	ID: Lab Co Prep T	ontrol Sa ype: To	
Analysis Batch: 29696										Batch:	
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	120		70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: LCSD 880-2	9652/3-A					Clier	nt San	ple ID:	Lab Contro	I Sampl	e Du
Matrix: Solid									Prep T	ype: To	tal/N
Analysis Batch: 29696										Batch:	
-			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	1173		mg/Kg		117	70 - 130	0	20
(GRO)-C6-C10						0 0					
Diesel Range Organics (Over			1000	1142		mg/Kg		114	70 - 130	4	2
C10-C28)											
	I CSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		duumer	70 - 130								
o-Terphenyl	108		70 - 130								
Lab Sample ID: 880-16861-A	A-1-B MS							Client	Sample ID:	: Matrix	Spike
Matrix: Solid									Prep T	ype: To	tal/N/
Analysis Batch: 29696										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	53.9		996	1119		mg/Kg		107	70 - 130		
Diesel Range Organics (Over	833	*- F1	996	1277	F1	mg/Kg		45	70 - 130		
C10-C28)						5. 5					
• · ·		MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	83		70 - 130								
									. Matein Or		
Lab Sample ID: 880-16861-A	4-1-C WISD					CI	ient S	ample IL): Matrix Sp		
Matrix: Solid										ype: To	
Analysis Batch: 29696	<u> </u>	<u> </u>	o "							Batch:	
		Sample	Spike		MSD		_	~ -	%Rec		RPI
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics GRO)-C6-C10	53.9		998	1024		mg/Kg		97	70 - 130	9	2
Diesel Range Organics (Over C10-C28)	833	*- F1	998	1145	F1	mg/Kg		31	70 - 130	11	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
	01		/0 - /00								

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o-Terphenyl

73

70 _ 130

Client: Ensolum

Project/Site: Fed 9 Com

QC Sample Results

Job ID: 890-2537-1 SDG: 0302024073

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29659/1-A											Client S	Sample ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 29860		мр	мр											
Analyte	в	MB	MB Qualifier		RL		Unit		D	Б	repared	Analy	7 0d	Dil Fac
Chloride		<5.00			5.00		mg/Kg		<u> </u>	F	repareu	07/16/22		DIFAC
-		\$0.00	0		5.00		ing/itg					01/10/22	03.43	
Lab Sample ID: LCS 880-29659/2-A									Cli	ent	Sample	D: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 29860														
				Spike	LC	S LCS						%Rec		
Analyte				Added		t Qual	ifier	Unit		D	%Rec	Limits		
Chloride				250	263	5		mg/Kg			105	90 - 110		
Lab Sample ID: LCSD 880-29659/3-	^							CI	iont S	am		Lab Contro	ol Samol	
Matrix: Solid										Jam	ipie ib.		Type: S	
Analysis Batch: 29860												Trop	Type. O	
· ······				Spike	LCS	D LCSI	c					%Rec		RPD
Analyte				Added	Resu	t Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250	263	3		mg/Kg		_	105	90 - 110	0	20
												00-110		
-														. 550/
Lab Sample ID: 890-2537-4 MS												Client Sa		
Lab Sample ID: 890-2537-4 MS Matrix: Solid												Client Sa	mple ID: Type: S	
Lab Sample ID: 890-2537-4 MS	Sample	Sam	ble	Spike	M	S MS						Client Sa		
Lab Sample ID: 890-2537-4 MS Matrix: Solid	Sample Result			Spike Added		6 MS It Qual	ifier	Unit		D	%Rec	Client Sa Prep		
Lab Sample ID: 890-2537-4 MS Matrix: Solid Analysis Batch: 29860 Analyte				•		t Qual	ifier	Unit mg/Kg		D	%Rec 109	Client Sa Prep %Rec		
Lab Sample ID: 890-2537-4 MS Matrix: Solid Analysis Batch: 29860 Analyte Chloride	Result			Added	Resu	t Qual	ifier			D		Client Sa Prep %Rec Limits 90 - 110	Type: S	oluble
Lab Sample ID: 890-2537-4 MS Matrix: Solid Analysis Batch: 29860 Analyte Chloride Lab Sample ID: 890-2537-4 MSD	Result			Added	Resu	t Qual	ifier			D		Client Sa Prep %Rec Limits 90 - 110 Client Sa	mple ID:	: SS04
Lab Sample ID: 890-2537-4 MS Matrix: Solid Analysis Batch: 29860 Analyte Chloride Lab Sample ID: 890-2537-4 MSD Matrix: Solid	Result			Added	Resu	t Qual	ifier			D		Client Sa Prep %Rec Limits 90 - 110 Client Sa	Type: S	oluble
Lab Sample ID: 890-2537-4 MS Matrix: Solid Analysis Batch: 29860 Analyte Chloride Lab Sample ID: 890-2537-4 MSD	Result 21.2	Qual	ifier	Added 250	Res u 294	t Qual	ifier			<u>D</u>		Client Sa Prep %Rec Limits 90 - 110 Client Sa	mple ID:	: SS04
Lab Sample ID: 890-2537-4 MS Matrix: Solid Analysis Batch: 29860 Analyte Chloride Lab Sample ID: 890-2537-4 MSD Matrix: Solid	Result	Quali	ifier	Added	Resu 294 MS	t Qual				D		Client Sa Prep %Rec Limits 90 - 110 Client Sa Prep	mple ID:	oluble

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Released to Imaging: 12/14/2022 10:39:19 AM
QC Association Summary

Client: Ensolum Project/Site: Fed 9 Com

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Job ID: 890-2537-1 SDG: 0302024073

GC VOA

Prep Batch: 29796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2537-1	SS01	Total/NA	Solid	5035	
890-2537-2	SS02	Total/NA	Solid	5035	
890-2537-3	SS03	Total/NA	Solid	5035	
890-2537-4	SS04	Total/NA	Solid	5035	
MB 880-29796/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29796/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29796/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2537-1 MS	SS01	Total/NA	Solid	5035	
890-2537-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 29885

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-2537-1	SS01	Total/NA	Solid	8021B	29796	
890-2537-2	SS02	Total/NA	Solid	8021B	29796	
890-2537-3	SS03	Total/NA	Solid	8021B	29796	
890-2537-4	SS04	Total/NA	Solid	8021B	29796	
MB 880-29796/5-A	Method Blank	Total/NA	Solid	8021B	29796	
LCS 880-29796/1-A	Lab Control Sample	Total/NA	Solid	8021B	29796	10
LCSD 880-29796/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29796	15
890-2537-1 MS	SS01	Total/NA	Solid	8021B	29796	
890-2537-1 MSD	SS01	Total/NA	Solid	8021B	29796	

Analysis Batch: 29981

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2537-1	SS01	Total/NA	Solid	Total BTEX	
890-2537-2	SS02	Total/NA	Solid	Total BTEX	
890-2537-3	SS03	Total/NA	Solid	Total BTEX	
890-2537-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2537-1	SS01	Total/NA	Solid	8015NM Prep	
890-2537-2	SS02	Total/NA	Solid	8015NM Prep	
890-2537-3	SS03	Total/NA	Solid	8015NM Prep	
890-2537-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2537-1	SS01	Total/NA	Solid	8015B NM	29652
890-2537-2	SS02	Total/NA	Solid	8015B NM	29652
890-2537-3	SS03	Total/NA	Solid	8015B NM	29652
890-2537-4	SS04	Total/NA	Solid	8015B NM	29652
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015B NM	29652
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29652

GC Semi VOA (Continued)

Analysis Batch: 29696 (Continued)

Lab Sample ID LCSD 880-29652/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 29652
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	29652
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29652
Analysis Batch: 29843					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2537-1	SS01	Total/NA	Solid	8015 NM	
890-2537-2	SS02	Total/NA	Solid	8015 NM	
890-2537-3	SS03	Total/NA	Solid	8015 NM	
890-2537-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2537-1	SS01	Soluble	Solid	DI Leach	
890-2537-2	SS02	Soluble	Solid	DI Leach	
890-2537-3	SS03	Soluble	Solid	DI Leach	
890-2537-4	SS04	Soluble	Solid	DI Leach	
MB 880-29659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2537-4 MS	SS04	Soluble	Solid	DI Leach	
890-2537-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 29860

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2537-1	SS01	Soluble	Solid	300.0	29659
890-2537-2	SS02	Soluble	Solid	300.0	29659
890-2537-3	SS03	Soluble	Solid	300.0	29659
890-2537-4	SS04	Soluble	Solid	300.0	29659
MB 880-29659/1-A	Method Blank	Soluble	Solid	300.0	29659
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	300.0	29659
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29659
890-2537-4 MS	SS04	Soluble	Solid	300.0	29659
890-2537-4 MSD	SS04	Soluble	Solid	300.0	29659

5

8

Job ID: 890-2537-1

SDG: 0302024073

Job ID: 890-2537-1

Matrix: Solid

Client Sample ID: SS01

Project/Site: Fed 9 Com

Client: Ensolum

Date Collected: 07/11/22 10:45 Date Received: 07/11/22 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29796	07/15/22 08:47	MR	XEN MID
Total/NA	Analysis	8021B		1			29885	07/17/22 18:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29981	07/18/22 15:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29843	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 11:58	СН	XEN MID

Client Sample ID: SS02

Date Collected: 07/11/22 10:50

Date Received: 07/11/22 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	29796	07/15/22 08:47	MR	XEN MID
Total/NA	Analysis	8021B		1			29885	07/17/22 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29981	07/18/22 15:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29843	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 12:07	СН	XEN MID

Client Sample ID: SS03

Date Collected: 07/11/22 10:55 Date Received: 07/11/22 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	29796	07/15/22 08:47	MR	XEN MID
Total/NA	Analysis	8021B		1			29885	07/17/22 19:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29981	07/18/22 15:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29843	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 19:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 12:16	СН	XEN MID

Client Sample ID: SS04 Date Collected: 07/11/22 11:00 Date Received: 07/11/22 16:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29796	07/15/22 08:47	MR	XEN MID
Total/NA	Analysis	8021B		1			29885	07/17/22 19:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29981	07/18/22 15:14	SM	XEN MID

Eurofins Carlsbad

Matrix: Solid

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SDG: 0302024073

Lab Sample ID: 890-2537-1

Lab Sample ID: 890-2537-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2537-3

Lab Sample ID: 890-2537-4

5 9

Released to Imaging: 12/14/2022 10:39:19 AM

Job ID: 890-2537-1

SDG: 0302024073

Matrix: Solid

9

Lab Sample ID: 890-2537-4

Lab Chronicle

Client: Ensolum Project/Site: Fed 9 Com

Client Sample ID: SS04

Date Collected: 07/11/22 11:00 Date Received: 07/11/22 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29843	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 19:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 12:25	CH	XEN MID

Laboratory References:

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

lient: Ensolum	
roject/Site: Fed 9 Com	

Ioh ID: 800 2537 1

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Client: Ensolum Project/Site: Fed 9 Cor	n			Job ID: 890-2537-1 SDG: 0302024073	2
Laboratory: Eurofi Unless otherwise noted, all a		were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-24	06-30-23	5
The following analytes the agency does not of	fer certification.	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	6
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13
					14

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Method Summary

Client: Ensolum Project/Site: Fed 9 Com Job ID: 890-2537-1 SDG: 0302024073

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	E
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 Refe	ences:			8
ASTM = AS	STM International			
MCAWW =	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 198	3 And Subsequent Revisions.		
SW846 = "	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, N	ovember 1986 And Its Updates.		
TAL SOP =	TestAmerica Laboratories, Standard Operating Procedure			

Protocol References:

Laboratory References:

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

Client: Ensolum Project/Site: Fed 9 Com Page 43 of 150

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-2537-1	SS01	Solid	07/11/22 10:45	07/11/22 16:15	0.5'	
0-2537-2	SS02	Solid	07/11/22 10:50	07/11/22 16:15	0.5'	
0-2537-3	SS03	Solid	07/11/22 10:55	07/11/22 16:15	0.5'	
00-2537-4	SS04	Solid	07/11/22 11:00	07/11/22 16:15	0.5'	
						- i

	Environment Testing	esting	Midland,	TX (432) 704-5440	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	0) 509-3334	Work Order No:	er No:	1
	Xenco		EL Pasc Hobbs,	, TX (915) 585-344 NM (575) 392-755	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 CLTP-CC	794-1296	BB3199 BB3199 - CEO/ Fron i A Procession	nco.com Page 1 of	-
Project Manager:	kolei Jennings		Bill to: (if different)				Work	Work Order Comments	
	Entonur		Company Name:				Program: UST/PST PRP	Brownfields RRC	Superfund
	3122 NOH. Parks HUN		Address:				State of Project:	1	
e ZIP:	1.		City, State ZIP:	_			Reporting: Level II Level II	PST/UST TRRP	Level IV
	2 SO3		Email: KJENNINGS	0	en solum.	CON	Deliverables: EDD	ADaPT 🔲 Other:	
Project Name:	Ford a com	Turn	Turn Around			ANALYSIS REQUEST	ST	Preservative Codes	les
er:	030200073	Routine	Rush	Pres. Code				None: NO DI W	DI Water: H ₂ O
t Location: er's Name:	Eddu country	Due Date: TAT starts the c	Due Date: 5 20440 TAT starts the day received by the lab. If received by 4:300m	Lt.				Cool: Cool MeO HCL: HC HNO H-50.·H, NaO	MeOH: Me HNO ₃ : HN NAOH: Na
PO *: IN SAMPLE RECEIPT	Temp Blank:	-	Res No	eters					
Samples Received Intact:		eter ID:	[n=0]	mete				NaHSO 4: NABIS	
Cooler Custody Seals:	A A			_				Na 25 203: NaSO 3	
Sample Custody Seals: Total Containers:	Yes No N/A Temperat Corrected	Temperature Reading: Corrected Temperature:	20:		,	890-2537 Chain of Custody	Apo.	ZII ACETATETINGUN. ZII NaOH+Ascorbic Acid: SAPC	APC
Sample Identification	Matrix	Time Sampled	Depth Grab/ Comp	B+G	464 (14)			Sample Comments	nts
1022	2211111 S	Shot	0,S C		-				
S022									
5503		1055			9				
500	>		»						
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11		AI Sb As Ba Be B Cd	Be B Cd Ca C	Cr Co Cu Fe Pb Mg Mn Mo Ni	Vi K Se Ag	TI Sn	
cle Method(s) and	Circle Method(s) and Metal(s) to be analyzed	TCLP / SF	TCLP / SPLP 6010 : 8RCRA	RA Sb As Ba Be Cd	Be Cd Cr Co	Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	e Ag TI U Hg: 1631 / 245.1	/ 245.1 / 7470 / 7471	
e: Signature of this docume vice. Eurofins Xenco will be ofins Xenco. A minimum ch	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 bases are due to circumstances beyond the control of service. Aminimum charge of 885.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego	s a valid purchase ords not assume any respor ct and a charge of \$5 fi	er from client company sibility for any losses o or each sample submit	to Eurofins Xenco, It r expenses incurred ted to Eurofins Xenco	s affiliates and subconti by the client if such loss o, but not analyzed. The	nt company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions any losses or expenses incurred by the client if such losses are due to circumstances beyond the control mple submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotisted.	s and conditions and the control previously negotiated.		
Relinquished by (Signagure)	gnapure) Receiver	Received by: (Signature)		Date/Time	me Rel	Relinquished by: (Signature)	re) Received by: (Signature)	ignature) Date/Time	e
	1 Amer	Xero	tit	68/11/2	2 16 5				
					9				
								Revised Date: 08/25/2020 Rev. 2020.2	0 Rev. 2020.2

Received by OCD: 11/15/2022 8:28:18 PM

Ver 06/08/2021

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12 13

14

Job Number: 890-2537-1 SDG Number: 0302024073

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2537 List Number: 1 Creator: Stutzman, Amanda

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 ampered 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	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
ppropriate 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-2537-1 SDG Number: 0302024073

List Source: Eurofins Midland

List Creation: 07/13/22 11:52 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2537 List Number: 2 Creator: Kramer, Jessica

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Received by OCD: 11/15/2022 8:28:18 PM

LINKS

EOL

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2826-1

Laboratory Sample Delivery Group: 03D2024073 Client Project/Site: Federal 9 Com #1 Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Josh Adams

RAMER

Authorized for release by: 10/10/2022 3:28:06 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.

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LOD

LOQ

MCL MDA

MDC MDL

ML

MPN

MQL

NC

ND

NEG

POS

PQL

QC

RER

RL

RPD TEF

TEQ

TNTC

PRES

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cerren by OCL	·· 11/15/2022 0.20.10 1 14	1 uge 50 0j 1	100
	Definitions/Glossary		
Client: Ensolu Project/Site: I	um Federal 9 Com #1	Job ID: 890-2826-1 SDG: 03D2024073	
Qualifiers			
GC VOA Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		-
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac DL	Dilution Factor		
DL, RA, RE, IN	Detection Limit (DoD/DOE) 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)		

Eurofins Carlsbad

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

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

Reporting Limit or Requested Limit (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Job ID: 890-2826-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2826-1

REVISION

The report being provided is a revision of the original report sent on 9/5/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID corrections.

Report revision history

Receipt

The samples were received on 8/24/2022 10:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were collected in an improper container: PH01 (890-2826-1) and PH01A (890-2826-2). The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

Sample received in a 2 oz jar, client requested SAR testing but did not bring enough to sample

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33663 and analytical batch 880-33742 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33075 and analytical batch 880-33438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Project/Site: Federal 9 Com #1

Client Sample ID: PH01 Date Collected: 08/23/22 10:40 Date Received: 08/24/22 10:07 Sample Depth: .2'

Page	<i>52</i>	of 1.	50

Job ID: 890-2826-1 SDG: 03D2024073

Lab Sample ID: 890-2826-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/02/22 16:00	09/05/22 19:21	
Toluene	<0.00199	U	0.00199	mg/Kg		09/02/22 16:00	09/05/22 19:21	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/02/22 16:00	09/05/22 19:21	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/02/22 16:00	09/05/22 19:21	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/02/22 16:00	09/05/22 19:21	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/02/22 16:00	09/05/22 19:21	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	83		70 - 130			09/02/22 16:00	09/05/22 19:21	
1,4-Difluorobenzene (Surr)	112		70 - 130			09/02/22 16:00	09/05/22 19:21	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/05/22 21:14	
Method: SW846 8015 NM - Die			DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	272		50.0	mg/Kg			08/29/22 10:16	
Method: SW846 8015B NM - D	iesel Range	• Organics	; (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/26/22 15:42	08/28/22 23:31	
Diesel Range Organics (Over C10-C28)	151		50.0	mg/Kg		08/26/22 15:42	08/28/22 23:31	
Oll Range Organics (Over C28-C36)	121		50.0	mg/Kg		08/26/22 15:42	08/28/22 23:31	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130			08/26/22 15:42	08/28/22 23:31	
o-Terphenyl	87		70 - 130			08/26/22 15:42	08/28/22 23:31	
Method: MCAWW 300.0 - Anic	ons, Ion Chr	omatogra	phy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	401		4.96	mg/Kg			09/01/22 13:11	
Client Sample ID: PH01A ate Collected: 08/23/22 10:50 ate Received: 08/24/22 10:07 ample Depth: 1'						Lab Samp	le ID: 890-2 Matrix	
Method: SW846 8021B - Volat Analyte	-	Compoun Qualifier	ds (GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
•								Diira
Benzene	<0.00001							
Benzene Toluene	<0.00201 <0.00201	U	0.00201 0.00201	mg/Kg mg/Kg		09/02/22 16:00	09/05/22 19:41 09/05/22 19:41	

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	09/02/22 16:00	09/05/22 19:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	09/02/22 16:00	09/05/22 19:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	09/02/22 16:00	09/05/22 19:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	09/02/22 16:00	09/05/22 19:41	1

Eurofins Carlsbad

Job ID: 890-2826-1 SDG: 03D2024073

Client Sample ID: PH01A Date Collected: 08/23/22 10:50 Date Received: 08/24/22 10:07

Project/Site: Federal 9 Com #1

Lab Sample ID: 890-2826-2

Matrix: Solid

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Client: Ensolum

	the Organic	Compound	ds (GC) (Continu	ed)				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130			09/02/22 16:00	09/05/22 19:41	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/05/22 21:14	1
Method: SW846 8015 NM - Di	esel Range (Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/29/22 10:16	1
Method: SW846 8015B NM - I	Diesel Range	• Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		08/26/22 15:42	08/28/22 23:52	1
• •			49.8	mg/Kg		08/26/22 15.12	08/28/22 23:52	1
(GRO)-C6-C10	<10.8			mg/ng		00/20/22 13.42	00/20/22 23.32	I
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	0						
(GRO)-C6-C10	<49.8 <49.8		49.8	mg/Kg		08/26/22 15:42	08/28/22 23:52	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U		mg/Kg		08/26/22 15:42 Prepared	08/28/22 23:52 Analyzed	1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg				

	ns, ion onionatograp	ily - Oolubic					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8	4.97	mg/Kg			09/01/22 13:18	1

Surrogate Summary

Client: Ensolum Project/Site: Federal 9 Com #1

Method: 8021B - Volatile Organic Compounds (GC) **Matrix: Solid**

			Percent	Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2815-A-1-C MS	Matrix Spike	82	111	
890-2815-A-1-D MSD	Matrix Spike Duplicate	85	111	
890-2826-1	PH01	83	112	
890-2826-2	PH01A	86	107	
LCS 880-33663/1-A	Lab Control Sample	83	109	
LCSD 880-33663/2-A	Lab Control Sample Dup	86	102	
MB 880-33663/5-A	Method Blank	78	123	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		Percent Surrogate Recovery (Acceptance Limits)					
Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
-1-C MS	Matrix Spike	90	84				
A-1-D MSD	Matrix Spike Duplicate	93	85				
l	PH01	84	87				
2	PH01A	80	84				
3084/2-A	Lab Control Sample	105	114				
80-33084/3-A	Lab Control Sample Dup	108	119				
-33084/1-A	Method Blank	73	79				

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Job ID: 890-2826-1 SDG: 03D2024073

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: Federal 9 Com #1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33663/5-A
Matrix: Solid
Analysis Batch: 33742

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/02/22 16:00	09/05/22 16:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/02/22 16:00	09/05/22 16:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/02/22 16:00	09/05/22 16:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/02/22 16:00	09/05/22 16:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/02/22 16:00	09/05/22 16:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/02/22 16:00	09/05/22 16:08	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			09/02/22 16:00	09/05/22 16:08	1
1,4-Difluorobenzene (Surr)	123		70 - 130			09/02/22 16:00	09/05/22 16:08	1

Lab Sample ID: LCS 880-33663/1-A Matrix: Solid **Analysis Batch: 33742**

Analysis Batch: 33742							Prep Batch: 336	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1199		mg/Kg		120	70 - 130	
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09765		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1754		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.09026		mg/Kg		90	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-33663/2-A Matrix: Solid

Analysis Batch: 33742							Prep E	Batch: 3	33663
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1127		mg/Kg		113	70 - 130	6	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	5	35
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1890		mg/Kg		95	70 - 130	7	35
o-Xylene	0.100	0.09734		mg/Kg		97	70 - 130	8	35

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

Lab Sample ID: 890-2815-A-1-C MS Matrix: Solid

Matrix: Solid Analysis Batch: 33742										pe: Total/NA Batch: 33663
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.09208		mg/Kg		92	70 - 130	
Toluene	<0.00199	U F1	0.0998	0.06842	F1	mg/Kg		69	70 - 130	

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Client Sample ID: Matrix Spike

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7

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 33663

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Snike	MS MS	

QC Sample Results

Client: Ensolum Project/Site: Federal 9 Com #1

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

Lab Sample ID: 890-2815 Matrix: Solid	-A-1-C MS						CI	ient Sa	mple ID: I Prep Ty		
Analysis Batch: 33742										Batch: 3	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	< 0.00199	U F1	0.0998	0.05156	F1	mg/Kg		52	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.09022	F1	mg/Kg		45	70 - 130		
o-Xylene	<0.00199	U F1	0.0998	0.04710	F1	mg/Kg		47	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	82		70 - 130								
1.4-Difluorobenzene (Surr)	111		70 - 130								
_	-A-1-D MSD					Client S	Samp	le ID: N	latrix Spil	ke Dup	licate
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742		Sample	Spike	MSD	MSD	Client S	Samp	le ID: N			al/NA 33663
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742	Sample	Sample Qualifier	Spike Added	-	MSD Qualifier				Prep Ty Prep E %Rec	pe: Tot Batch: 3	al/NA 33663 RPD
Lab Sample ID: 890-2815 Matrix: Solid	Sample	Qualifier	Spike <u>Added</u> 0.100	-	MSD Qualifier	Unit	Samp	le ID: N	Prep Ty Prep E	pe: Tot	al/NA 33663
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte	Sample Result	Qualifier	Added	Result 0.09004	-			%Rec	Prep Ty Prep E %Rec Limits	pe: Tot Batch: 3	al/NA 33663 RPD Limit
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte Benzene	Sample 	Qualifier U U F1	Added	Result 0.09004	Qualifier F1	Unit mg/Kg		%Rec 90	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot Batch: 3 RPD 2	al/NA 33663 RPD Limit 35
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte Benzene Toluene	Sample Result <0.00199 <0.00199	Qualifier U U F1 U F1	Added	Result 0.09004 0.06341	Qualifier F1 F1	<mark>Unit</mark> mg/Kg mg/Kg		%Rec 90 63	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: 3 RPD 2 8	al/NA 33663 RPD Limit 35 35
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U F1 U F1 U F1	Added 0.100 0.100 0.100 0.100	Result 0.09004 0.06341 0.04691	Qualifier F1 F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 90 63 47	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 3 RPD 2 8 9	al/NA 33663 RPD Limit 35 35 35
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398	Qualifier U U F1 U F1 U F1 U F1 U F1	Added 0.100 0.100 0.100 0.201	Result 0.09004 0.06341 0.04691 0.08178	Qualifier F1 F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 90 63 47 41	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 3 RPD 2 8 9 10	al/NA 33663 RPD Limit 35 35 35 35 35
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U F1 U F1 U F1 U F1 U F1 WSD	Added 0.100 0.100 0.100 0.201	Result 0.09004 0.06341 0.04691 0.08178	Qualifier F1 F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 90 63 47 41	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 3 RPD 2 8 9 10	al/NA 33663 RPD Limit 35 35 35 35 35
Lab Sample ID: 890-2815 Matrix: Solid Analysis Batch: 33742 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <i>MSD</i>	Qualifier U U F1 U F1 U F1 U F1 U F1 WSD	Added 0.100 0.100 0.100 0.201 0.100	Result 0.09004 0.06341 0.04691 0.08178	Qualifier F1 F1 F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 90 63 47 41	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 3 RPD 2 8 9 10	al/NA 33663 RPD Limit 35 35 35 35 35

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

Lab Sample ID: MB 880-33084/1-A Matrix: Solid Analysis Batch: 33127

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	_	08/26/22 15:42	08/28/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/26/22 15:42	08/28/22 17:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/26/22 15:42	08/28/22 17:32	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCS 880-33084/2-A Matrix: Solid Analysis Batch: 33127

Analysis Batch: 33127							Prep E	atch: 33084
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	882.1		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	963.8		mg/Kg		96	70 - 130	
C10-C28)								

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Client Sample ID: Method Blank

Prep Type: Total/NA

1

1

08/26/22 15:42 08/28/22 17:32

08/26/22 15:42 08/28/22 17:32

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33084

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Job ID: 890-2826-1 SDG: 03D2024073 Lab Sample ID: LCS 880-33084/2-A

QC Sample Results

Client: Ensolum Project/Site: Federal 9 Com #1

Analysis Batch: 33127

Matrix: Solid

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

Job ID: 890-2826-1

SDG: 03D2024073

Prep Type: Total/NA

Prep Batch: 33084

Client Sample ID: Lab Control Sample

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 105 70 - 130 o-Terphenyl 114 70 - 130 **Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 880-33084/3-A Matrix: Solid **Prep Type: Total/NA** Analysis Batch: 33127 Prep Batch: 33084 LCSD LCSD RPD %Rec Spike Analyte Added **Result Qualifier** Unit D %Rec Limits RPD Limit **Gasoline Range Organics** 1000 914.9 mg/Kg 91 70 - 130 4 20 (GRO)-C6-C10 **Diesel Range Organics (Over** 1000 1028 mg/Kg 103 70 - 130 6 20 C10-C28) LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 108 70 - 130 70 - 130 o-Terphenyl 119 Lab Sample ID: 890-2812-A-1-C MS **Client Sample ID: Matrix Spike** Matrix: Solid **Prep Type: Total/NA** Analysis Batch: 33127 Prep Batch: 33084 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec <49.9 U 70 - 130 Gasoline Range Organics 999 906.5 mg/Kg 88 (GRO)-C6-C10 999 **Diesel Range Organics (Over** <49.9 U 728.3 mg/Kg 73 70 - 130 C10-C28) MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 90 o-Terphenyl 84 70 - 130 Lab Sample ID: 890-2812-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Solid Prep Type: Total/NA Analysis Batch: 33127 Prep Batch: 33084 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier RPD Added **Result Qualifier** Limits Limit Analyte Unit D %Rec Gasoline Range Organics <49.9 U 998 955.4 93 70 - 130 5 20 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** <49.9 U 998 749.7 mg/Kg 75 70 - 130 3 20 C10-C28) MSD MSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane	93	70 - 130
o-Terphenyl	85	70 - 130

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Client: Ensolum

QC Sample Results

Job ID: 890-2826-1 SDG: 03D2024073

Project/Site: Federal 9 Com #1 Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3307 Matrix: Solid	′5/1-A							C	Clie	nt Sam	ple ID: M Prep T		
Analysis Batch: 33438													
-		MB MB											
Analyte	Re	sult Qualifie	ər	RL		Unit		D	Pr	repared	Analy	zed	Dil Fac
Chloride	<	5.00 U		5.00		mg/ł	٢g				09/01/22	09:56	1
Lab Sample ID: LCS 880-330	75/2-A						Cli	ent S	San	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid										•	Prep T		
Analysis Batch: 33438													
-			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			250		247.9		mg/Kg		_	99	90 - 110		
Lab Sample ID: LCSD 880-33	3075/3-A						Client S	amr	ole	ID [.] I ah		Sample	e Dur
Matrix: Solid											Prep T		
Analysis Batch: 33438												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
· · · · · · · · · · · · · · · · · · ·			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250		249.0		mg/Kg		_	100	90 - 110	0	20
Lab Sample ID: 890-2830-A-	1-C MS								Cli	ient Sa	mple ID:	Matrix	Spike
Matrix: Solid											Prep T		
Analysis Batch: 33438													
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	29.5	F1	250		305.8	F1	mg/Kg		_	111	90 - 110		
Lab Sample ID: 890-2830-A-	1-D MSD						Clien	t Sar	mn	le ID [.] M	latrix Spil	ke Dun	licate
Matrix: Solid											Prep T		
Analysis Batch: 33438												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	-	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Analyte													

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Released to Imaging: 12/14/2022 10:39:19 AM

QC Association Summary

Client: Ensolum Project/Site: Federal 9 Com #1

GC VOA

Prep Batch: 33663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2826-1	PH01	Total/NA	Solid	5035	
890-2826-2	PH01A	Total/NA	Solid	5035	
MB 880-33663/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33663/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33663/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2815-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2815-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33742

		Total/TV/	Colla	0000		0
Analysis Batch: 3374	12					0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
890-2826-1	PH01	Total/NA	Solid	8021B	33663	
890-2826-2	PH01A	Total/NA	Solid	8021B	33663	
MB 880-33663/5-A	Method Blank	Total/NA	Solid	8021B	33663	
LCS 880-33663/1-A	Lab Control Sample	Total/NA	Solid	8021B	33663	
LCSD 880-33663/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33663	
890-2815-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	33663	
890-2815-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33663	
Analysis Batch: 3377	76					13

Analysis Batch: 33776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2826-1	PH01	Total/NA	Solid	Total BTEX	
890-2826-2	PH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 33084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2826-1	PH01	Total/NA	Solid	8015NM Prep	
890-2826-2	PH01A	Total/NA	Solid	8015NM Prep	
MB 880-33084/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33084/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33084/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2812-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2812-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2826-1	PH01	Total/NA	Solid	8015B NM	33084
890-2826-2	PH01A	Total/NA	Solid	8015B NM	33084
MB 880-33084/1-A	Method Blank	Total/NA	Solid	8015B NM	33084
LCS 880-33084/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33084
LCSD 880-33084/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33084
890-2812-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	33084
890-2812-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	33084

Analysis Batch: 33187

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2826-1	PH01	Total/NA	Solid	8015 NM	
890-2826-2	PH01A	Total/NA	Solid	8015 NM	

5

Job ID: 890-2826-1

SDG: 03D2024073

QC Association Summary

Client: Ensolum Project/Site: Federal 9 Com #1

HPLC/IC

Leach Batch: 33075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2826-1	PH01	Soluble	Solid	DI Leach	
890-2826-2	PH01A	Soluble	Solid	DI Leach	
MB 880-33075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2830-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2830-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Client Sample ID Matrix Lab Sample ID Prep Type Method Prep Batch 300.0 890-2826-1 PH01 Soluble Solid 33075 PH01A 890-2826-2 Soluble Solid 300.0 33075 MB 880-33075/1-A Method Blank Soluble Solid 300.0 33075 300.0 LCS 880-33075/2-A Lab Control Sample Soluble Solid 33075 Soluble 300.0 LCSD 880-33075/3-A Lab Control Sample Dup Solid 33075 890-2830-A-1-C MS Soluble Solid 300.0 33075 Matrix Spike 300.0 33075 890-2830-A-1-D MSD Solid Matrix Spike Duplicate Soluble

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Job ID: 890-2826-1 SDG: 03D2024073

Initial

Amount

5.02 g

5 mL

10.00 g

1 uL

5.04 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

33663

33742

33776

33187

33084

33127

33075

33438

Number

Dil

1

1

1

1

1

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Client Sample ID: PH01 Date Collected: 08/23/22 10:40 Date Received: 08/24/22 10:07

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 890-2826-1 SDG: 03D2024073

Lab Sample ID: 890-2826-1

Analyst

MNR

Prepared

or Analyzed

09/02/22 16:00

09/05/22 19:21 AJ

09/05/22 21:14 AJ

08/29/22 10:16 SM

08/26/22 15:42 DM

08/28/22 23:31 SM

08/26/22 14:54 KS

09/01/22 13:11 CH

Matrix: Solid

Lab

EET MID

|2 |3

Lab Sample ID: 890-2826-2 Matrix: Solid

Date Collected: 08/23/22 10:50 Date Received: 08/24/22 10:07

Client Sample ID: PH01A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33663	09/02/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33742	09/05/22 19:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33776	09/05/22 21:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33187	08/29/22 10:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33084	08/26/22 15:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33127	08/28/22 23:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33075	08/26/22 14:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33438	09/01/22 13:18	СН	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: Federal 9 Com #1 Job ID: 890-2826-1

SDG: 03D2024073

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date	
Texas	NE	LAP	T104704400-22-24	06-30-23	
The following englyter	a are included in this rene	rt but the laboratory is r	act cortified by the governing outbority	This list may include analytes for which	
the agency does not o		it, but the laboratory is i	lot certified by the governing authority.		
0,		Matrix	Analyte		
the agency does not o	offer certification.		, , , , ,		

Eurofins Carlsbad

10

Method Summary

Client: Ensolum Project/Site: Federal 9 Com #1 Job ID: 890-2826-1 SDG: 03D2024073

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

Client: Ensolum

890-2826-1

890-2826-2

Sample Summary

Page 64 of 150

Job ID: 890-2826-1 SDG: 03D2024073

Lab Sample II	D Client Sample ID	Matrix	Collected
Project/Site	: Federal 9 Com #1		

Client Sample ID	Matrix	Collected	Received	Depth	
PH01	Solid		08/24/22 10:07	.2'	
PH01A	Solid	08/23/22 10:50	08/24/22 10:07	1'	
					5
					8
					9
					1
					1

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10/10/2022 (Rev. 1)

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4 5 6

12 13

14

Job Number: 890-2826-1 SDG Number: 03D2024073

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2826 List Number: 1 Creator: Stutzman, Amanda

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-2826-1 SDG Number: 03D2024073

List Source: Eurofins Midland

List Creation: 08/25/22 10:42 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2826 List Number: 2 C

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 11/15/2022 8:28:18 PM

LINKS

EOL

Have a Question?

www.eurofinsus.com/Env

Released to Imaging: 12/14/2022 10:39:19 AM

Visit us at:

Ask— The Expert

Review your project results through

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3027-1

Laboratory Sample Delivery Group: Lea County NM Client Project/Site: Fed 9 Com 1 Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Josh Adams

RAMER

Authorized for release by: 10/5/2022 11:47:09 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.

Laboratory Job ID: 890-3027-1 SDG: Lea County NM

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2

Client: Ensolum Project/Site: Fed 9 Com 1

Job ID: 890-3027-1 SDG: Lea County NM

Qualifiers

Quaimers			3	
GC VOA				
Qualifier	Qualifier Description			
U	Indicates the analyte was analyzed for but not detected.			
GC Semi VC	AC		5	
Qualifier	Qualifier Description			
*1	LCS/LCSD RPD exceeds control limits.			
F2	MS/MSD RPD exceeds control limits			
S1-	Surrogate recovery exceeds control limits, low biased.			
S1+	Surrogate recovery exceeds control limits, high biased.			
U	Indicates the analyte was analyzed for but not detected.		8	
HPLC/IC				
Qualifier	Qualifier Description		9	
F1	MS and/or MSD recovery exceeds control limits.			
U	Indicates the analyte was analyzed for but not detected.			
Glossary				
Abbreviation	These commonly used abbreviations may or may not be present in this report.			
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis			
%R	Percent Recovery			
CFL	Contains Free Liquid		4.9	
CEU	Colony Forming Unit		113	

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
DLC	Decision Level Concentration (Radiochemistry

on, or additional Initial metals/anion analysis of the sample y)

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

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

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)

Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count Page 70 of 150

Case Narrative

Client: Ensolum Project/Site: Fed 9 Com 1

Job ID: 890-3027-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3027-1

REVISION

The report being provided is a revision of the original report sent on 9/27/2022. The report (revision 1) is being revised due to Per client email, requesting RUSH TPH re run.

Report revision history

Receipt

The samples were received on 9/21/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 28.0°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: FS01 (890-3027-1), FS02 (890-3027-2), FS03 (890-3027-3), FS04 (890-3027-4), FS05 (890-3027-5), FS06 (890-3027-6), FS07 (890-3027-7), FS08 (890-3027-8), FS09 (890-3027-9) and FS10 (890-3027-10). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

Samples received out of temp range 28.2/28.0 Client was notified and wishes to proceed with testing.

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35263 and analytical batch 880-35322 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS02 (890-3027-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS07 (890-3027-7) and FS08 (890-3027-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-35263 and analytical batch 880-35322 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-35610 and analytical batch 880-35641 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-35610 and analytical batch 880-35641 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35372

Case Narrative

Client: Ensolum Project/Site: Fed 9 Com 1 Job ID: 890-3027-1 SDG: Lea County NM

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Job ID: 890-3027-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

and analytical batch 880-35453 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Ensolum Project/Site: Fed 9 Com 1

Client Sample ID: FS01 Date Collected: 09/21/22 11:40 Date Received: 09/21/22 15:17

Lab Sample ID: 890-3027-1

Matrix: Solid

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 11:46	
Toluene	<0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 11:46	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 11:46	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/26/22 16:11	09/27/22 11:46	
p-Xylene	<0.00202		0.00202	mg/Kg		09/26/22 16:11	09/27/22 11:46	
Xylenes, Total	<0.00403		0.00403	mg/Kg		09/26/22 16:11	09/27/22 11:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	84		70 - 130			09/26/22 16:11	09/27/22 11:46	
1,4-Difluorobenzene (Surr)	102		70 - 130			09/26/22 16:11	09/27/22 11:46	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/27/22 15:09	
Method: SW846 8015 NM - Di			DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			09/26/22 12:14	
Method: SW846 8015B NM - D	Diesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 21:38	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 21:38	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 21:38	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	102		70 - 130			09/23/22 11:06	09/24/22 21:38	
o-Terphenyl	86		70 - 130			09/23/22 11:06	09/24/22 21:38	
Method: MCAWW 300.0 - Anio			•					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	124		5.04	mg/Kg			09/27/22 02:09	
lient Sample ID: FS02						Lab Samp	le ID: 890-3	
ate Collected: 09/21/22 14:30 ate Received: 09/21/22 15:17							Matrix	c: Soli
ample Depth: 1'								
	tilo Organic	Compound	de (GC)					
Method: SW846 8021B - Volat		Sompound		Unit	D	Prepared	Analyzed	Dil Fa
	Result	Qualifier	RL				Analyzeu	
Analyte	-		0.00198	mg/Kg		09/26/22 16:11	09/27/22 12:06	
Analyte Benzene	Result	U						
Analyte Benzene Foluene	Result <0.00198	U U	0.00198	mg/Kg		09/26/22 16:11	09/27/22 12:06	
Analyte Benzene Foluene Ethylbenzene	Result <0.00198 <0.00198	U U U	0.00198 0.00198	mg/Kg mg/Kg		09/26/22 16:11 09/26/22 16:11	09/27/22 12:06 09/27/22 12:06	
Method: SW846 8021B - Volat Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result <0.00198	U U U U	0.00198 0.00198 0.00198	mg/Kg mg/Kg mg/Kg		09/26/22 16:11 09/26/22 16:11 09/26/22 16:11	09/27/22 12:06 09/27/22 12:06 09/27/22 12:06	

Xylenes, Total <0.00396 U 0.00396 mg/Kg 09/26/22 16:11 09/27/22 12:06 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 107 70 - 130 09/26/22 16:11 09/27/22 12:06

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Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-2

Matrix: Solid

5

Project/Site: Fed 9 Com 1

Client Sample ID: FS02

Date Collected: 09/21/22 14:30

Client: Ensolum

Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC) (Continu	ied)				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	121		70 - 130			09/26/22 16:11	09/27/22 12:06	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/27/22 15:09	
Method: SW846 8015 NM - Di	esel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			09/26/22 12:14	
Method: SW846 8015B NM - D)iesel Range	Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 22:42	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 22:42	
C10-C28)	- 40.0		40.0			00/02/00 44:00	00/04/00 00:40	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/23/22 11.00	09/24/22 22:42	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	44	S1-	70 - 130			09/23/22 11:06	09/24/22 22:42	
o-Terphenyl	113		70 - 130			09/23/22 11:06	09/24/22 22:42	
Method: MCAWW 300.0 - Anio	ons. Ion Chr	omatogra	ohv - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	27.9		4.98	mg/Kg			09/27/22 02:13	
Client Sample ID: FS03 Date Collected: 09/21/22 14:35						Lab Samp	le ID: 890-3 Matrix	
Date Received: 09/21/22 15:17 Sample Depth: 0.5'							Watin	. 301
-								
Method: SW846 8021B - Volat	• •		· · ·					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 12:26	
Toluene	<0.00199		0.00199	mg/Kg		09/26/22 16:11	09/27/22 12:26	

1,4-Difluorobenzene (Surr)	105		70 - 130		09/26/22 16:11	09/27/22 12:26	1
4-Bromofluorobenzene (Surr)	101		70 - 130		09/26/22 16:11	09/27/22 12:26	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	09/26/22 16:11	09/27/22 12:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg	09/26/22 16:11	09/27/22 12:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	09/26/22 16:11	09/27/22 12:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	09/26/22 16:11	09/27/22 12:26	1
Toluene	<0.00199	U	0.00199	mg/Kg	09/26/22 16:11	09/27/22 12:26	1
Benzene	< 0.00199	U	0.00199	mg/Kg	09/26/22 16:11	09/27/22 12:26	1

Method: TAL SOP Tot	al BTEX - Total BTE	X Calculati	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/27/22 15:09	1
Method: SW846 8015	NM - Diesel Range	Organics (I	DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.5		50.0	mg/Kg			09/26/22 12:14	1

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Client Sample Results

Client: Ensolum Project/Site: Fed 9 Com 1

Client Sample ID: FS03

Date Collected: 09/21/22 14:35 Date Received: 09/21/22 15:17

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/24/22 23:03	1
Diesel Range Organics (Over C10-C28)	56.5		50.0	mg/Kg		09/23/22 11:06	09/24/22 23:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/24/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			09/23/22 11:06	09/24/22 23:03	1
o-Terphenyl	96		70 - 130			09/23/22 11:06	09/24/22 23:03	1

Method: MCAWW 300.0 - Anio	ns, Ion Chromatog	raphy - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.6	4.95	mg/Kg			09/27/22 02:18	1

Client Sample ID: FS04 Date Collected: 09/21/22 14:40 Date Received: 09/21/22 15:17

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 12:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 12:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 12:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/26/22 16:11	09/27/22 12:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 12:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/26/22 16:11	09/27/22 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			09/26/22 16:11	09/27/22 12:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130			09/26/22 16:11	09/27/22 12:47	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/27/22 15:09	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/26/22 12:14	1

	neser runge	, organios						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 23:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 23:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/24/22 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			09/23/22 11:06	09/24/22 23:24	1
o-Terphenyl	103		70 - 130			09/23/22 11:06	09/24/22 23:24	1

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Matrix: Solid

Matrix: Solid

Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-4

Lab Sample ID: 890-3027-3

		Client	Sample Res	sults				
lient: Ensolum							Job ID: 890-	
roject/Site: Fed 9 Com 1						ç	SDG: Lea Cou	nty NM
lient Sample ID: FS04						Lab Samp	le ID: 890-3	027-4
ate Collected: 09/21/22 14:40								: Solid
ate Received: 09/21/22 15:17							Mathy	
ample Depth: 0.5'								
· · ·								
Method: MCAWW 300.0 - Anio					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.5		5.01	mg/Kg			09/27/22 02:23	1
lient Sample ID: FS05						Lab Samp	le ID: 890-3	027-5
ate Collected: 09/21/22 14:45								: Solid
Date Received: 09/21/22 15:17								
ample Depth: 0.5'								
		•						
Method: SW846 8021B - Volati Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199	mg/Kg		09/26/22 16:11		1
Toluene	< 0.00199		0.00199	mg/Kg		09/26/22 16:11		1
Ethylbenzene	< 0.00199		0.00199	mg/Kg			09/27/22 13:07	1
m-Xylene & p-Xylene	< 0.00398		0.00398	mg/Kg			09/27/22 13:07	
o-Xylene	< 0.00199		0.00199	mg/Kg		09/26/22 16:11	09/27/22 13:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/26/22 16:11	09/27/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			09/26/22 16:11	09/27/22 13:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130			09/26/22 16:11	09/27/22 13:07	1
Method: TAL SOP Total BTEX	- Total BTE	X Calcula	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/27/22 15:09	1
Method: SW846 8015 NM - Die		-		11	_	Dremered	Anolyzad	
Analyte Total TPH	340	Qualifier		Unit	<u>D</u>	Prepared	Analyzed 09/26/22 12:14	Dil Fac
	340		49.9	mg/Kg			09/20/22 12.14	1
Method: SW846 8015B NM - D	iesel Range	• Organics	s (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		09/28/22 13:29	09/29/22 23:39	1
(GRO)-C6-C10			10.0					
Diesel Range Organics (Over C10-C28)	289		49.9	mg/Kg		09/28/22 13:29	09/29/22 23:39	1
Oll Range Organics (Over C28-C36)	51.2		49.9	mg/Kg		09/28/22 13:29	09/29/22 23:39	1
	01.2						20,20,22 20.00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			09/28/22 13:29		1
o-Terphenyl	98		70 - 130			09/28/22 13:29	09/29/22 23:39	1
Mothod: MCAMM 200 0 Anio	ne lon Chr	omatoara	nhy - Solublo					
Method: MCAWW 300.0 - Anio Analyte		omatogra Qualifier	phy - Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Carlsbad

Client Sample Results

Client: Ensolum Project/Site: Fed 9 Com 1

Client Sample ID: FS06 Date Collected: 09/21/22 09:30 Date Received: 09/21/22 15:17

Method: SW846 8021B - Volat	ine organic	Compound	us (00)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201	mg/Kg		09/26/22 16:11	09/27/22 13:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/26/22 16:11	09/27/22 13:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/26/22 16:11	09/27/22 13:28	1
m-Xylene & p-Xylene	< 0.00402	U	0.00402	mg/Kg		09/26/22 16:11	09/27/22 13:28	1
p-Xylene	<0.00201	U	0.00201	mg/Kg		09/26/22 16:11	09/27/22 13:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/26/22 16:11	09/27/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			09/26/22 16:11	09/27/22 13:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/26/22 16:11	09/27/22 13:28	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/27/22 15:09	1
Method: SW846 8015 NM - Die	esel Range	Organics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/26/22 12:14	1
Method: SW846 8015B NM - D		-	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/25/22 00:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/25/22 00:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/25/22 00:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			09/23/22 11:06	09/25/22 00:06	1
o-Terphenyl	102		70 - 130			09/23/22 11:06	09/25/22 00:06	1
Method: MCAWW 300.0 - Anio			•		_	_ .		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.3		4.99	mg/Kg			09/27/22 02:33	1
lient Sample ID: FS07						Lab Samp	le ID: 890-3	
ate Collected: 09/21/22 09:45 ate Received: 09/21/22 15:17 ample Depth: 1'							Matrix	: Solid
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Roodin			onne	-	rioparoa	7 maiy 20a	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 13:48	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 13:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 13:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/26/22 16:11	09/27/22 13:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/26/22 16:11	09/27/22 13:48	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/26/22 16:11	09/27/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			09/26/22 16:11	09/27/22 13:48	1

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Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-6

Matrix: Solid

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Released to Imaging: 12/14/2022 10:39:19 AM

10/5/2022 (Rev. 1)

Client: Ensolum

Project/Site: Fed 9 Com 1

Client Sample ID: FS07

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Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-7 Matrix: Solid

Date Collected: 09/21/22 09:45
Date Received: 09/21/22 15:17
Sample Depth: 1'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130			09/26/22 16:11	09/27/22 13:48	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			09/27/22 15:09	1
Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	330		50.0	mg/Kg			09/26/22 12:14	1
Method: SW846 8015B NM - D) iesel Rance	• Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		09/28/22 13:29	09/30/22 00:00	1
Diesel Range Organics (Over C10-C28)	260		50.0	mg/Kg		09/28/22 13:29	09/30/22 00:00	1
Oll Range Organics (Over C28-C36)	69.6		50.0	mg/Kg		09/28/22 13:29	09/30/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			09/28/22 13:29	09/30/22 00:00	1
o-Terphenyl	93		70 - 130			09/28/22 13:29	09/30/22 00:00	1
Method: MCAWW 300.0 - Anic	ons, Ion Chr	omatogra	ohy - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.4		5.02	mg/Kg			09/27/22 14:13	1
lient Sample ID: FS08						Lab Samp		~~~ (

Date Collected: 09/21/22 10:02 Date Received: 09/21/22 15:17 Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:08	1	
Toluene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:08	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:08	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/26/22 16:11	09/27/22 14:08	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:08	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/26/22 16:11	09/27/22 14:08	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)			70 - 130			09/26/22 16:11	09/27/22 14:08	1	
1,4-Difluorobenzene (Surr)	108		70 - 130			09/26/22 16:11	09/27/22 14:08	1	
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/27/22 15:09	1	
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			09/26/22 12:14		

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Client Sample Results

Client: Ensolum Project/Site: Fed 9 Com 1

Client Sample ID: FS08

Date Collected: 09/21/22 10:02 Date Received: 09/21/22 15:17

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/25/22 00:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/25/22 00:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/23/22 11:06	09/25/22 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			09/23/22 11:06	09/25/22 00:49	1
o-Terphenyl	122		70 - 130			09/23/22 11:06	09/25/22 00:49	1
	ons, Ion Chr	omatogra	ohy - Soluble					
Method: MCAVVV 300.0 - Anio								
Method: MCAWW 300.0 - Anio Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS09

Date Collected: 09/21/22 10:20 Date Received: 09/21/22 15:17 Sample Depth: 1'

Method: SW846 8021B - Vola	atile Organic	Compoun	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/26/22 16:11	09/27/22 14:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/26/22 16:11	09/27/22 14:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/26/22 16:11	09/27/22 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/26/22 16:11	09/27/22 14:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130			09/26/22 16:11	09/27/22 14:29	1
Method: TAL SOP Total BTE	X - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/27/22 15:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Total TPH 50.0 mg/Kg 09/26/22 12:14 95.2 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U *1 50.0 09/28/22 13:29 09/30/22 00:22 **Gasoline Range Organics** mg/Kg 1 (GRO)-C6-C10 50.0 09/28/22 13:29 09/30/22 00:22 **Diesel Range Organics (Over** mg/Kg 95.2 1 C10-C28) 09/28/22 13:29 09/30/22 00:22 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 1 %Recoverv Qualifier Limits Prepared Surrogate Analvzed Dil Fac 1-Chlorooc

ounoguic	<i>/////////////////////////////////////</i>	Quanner	Linnto	Tieparea	Analyzeu
1-Chlorooctane	94		70 - 130	09/28/22 13:29	09/30/22 00:22
o-Terphenyl	97		70 - 130	09/28/22 13:29	09/30/22 00:22

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Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-8 Matrix: Solid

Lab Sample ID: 890-3027-9

Matrix: Solid

		Client	Sample Re	sults				
Client: Ensolum							Job ID: 890-	
Project/Site: Fed 9 Com 1						:	SDG: Lea Cou	nty NM
Client Sample ID: FS09 Date Collected: 09/21/22 10:20 Date Received: 09/21/22 15:17 Sample Depth: 1'						Lab Samp	le ID: 890-3 Matrix	8 027-9 :: Solid
Method: MCAWW 300.0 - Anio		omatogra Qualifier	phy - Soluble _{RL}	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		4.99	<u></u>			09/27/22 14:25	1
Client Sample ID: FS10 Date Collected: 09/21/22 11:30 Date Received: 09/21/22 15:17 Sample Depth: 1.5'					L	ab Sample.	e ID: 890-30 Matrix)27-10 :: Solid
Method: SW846 8021B - Volat	-		ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 14:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 14:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 14:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/26/22 16:11	09/27/22 14:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 14:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/26/22 16:11	09/27/22 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			09/26/22 16:11	09/27/22 14:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130			09/26/22 16:11	09/27/22 14:49	1
Method: TAL SOP Total BTEX					_	_ .		
Analyte Total BTEX	<0.00399	Qualifier	RL 0.00399	Unit	D	Prepared	Analyzed 09/27/22 15:09	Dil Fac
Method: SW846 8015 NM - Die Analyte	e <mark>sel Range</mark> Result	Organics (Qualifier	(DRO) (GC) RL	mg/Kg	D	Prepared	Analyzed	Dil Fac
Total TPH 	<50.0	U	50.0	mg/Kg			09/26/22 12:14	1
Method: SW846 8015B NM - D Analyte		e Organics Qualifier	s (DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0	mg/Kg		09/23/22 11:06		
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<50.0		50.0	mg/Kg			09/25/22 01:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/25/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			09/23/22 11:06	09/25/22 01:31	1
o-Terphenyl	105		70 - 130			09/23/22 11:06	09/25/22 01:31	1
Method: MCAWW 300.0 - Anio		_	• •		_	_ .		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	983		5.00	mg/Kg			09/27/22 14:31	1

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Surrogate Summary

Client: Ensolum Project/Site: Fed 9 Com 1

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

-			Pe
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3027-1	FS01	84	102
890-3027-1 MS	FS01	93	94
890-3027-1 MSD	FS01	76	107
890-3027-2	FS02	107	121
890-3027-3	FS03	101	105
890-3027-4	FS04	95	110
890-3027-5	FS05	99	104
890-3027-6	FS06	83	107
890-3027-7	FS07	81	108
890-3027-8	FS08	101	108
890-3027-9	FS09	103	110
890-3027-10	FS10	92	102
LCS 880-35444/1-A	Lab Control Sample	89	102
LCSD 880-35444/2-A	Lab Control Sample Dup	78	109
MB 880-35444/5-A	Method Blank	105	119
Surrogate Legend			
BFB = 4-Bromofluorobe	enzene (Surr)		
DFBZ = 1,4-Difluorobe	nzene (Surr)		

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

_			Pe
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-19720-A-1-C MS	Matrix Spike	85	79
880-19720-A-1-D MSD	Matrix Spike Duplicate	105	93
890-3027-1	FS01	102	86
890-3027-1 MS	FS01	110	91
890-3027-1 MSD	FS01	126	89
890-3027-2	FS02	44 S1-	113
890-3027-3	FS03	112	96
890-3027-4	FS04	115	103
890-3027-5	FS05	95	98
890-3027-6	FS06	117	102
890-3027-7	FS07	89	93
890-3027-8	FS08	139 S1+	122
890-3027-9	FS09	94	97
890-3027-10	FS10	122	105
LCS 880-35263/2-A	Lab Control Sample	117	104
LCS 880-35610/2-A	Lab Control Sample	121	119
LCSD 880-35263/3-A	Lab Control Sample Dup	110	103
LCSD 880-35610/3-A	Lab Control Sample Dup	107	109
MB 880-35263/1-A	Method Blank	156 S1+	147 S1+
MB 880-35610/1-A	Method Blank	123	124
Surrogate Legend			

Surrogate Legend 1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-3027-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 35444

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client: Ensolum Project/Site: Fed 9 Com 1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35444/5-A Matrix: Solid

Analysis Batch: 35468

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 11:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 11:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/26/22 16:11	09/27/22 11:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/26/22 16:11	09/27/22 11:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/26/22 16:11	09/27/22 11:17	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/26/22 16:11	09/27/22 11:17	1
1,4-Difluorobenzene (Surr)	119		70 - 130			09/26/22 16:11	09/27/22 11:17	1

Lab Sample ID: LCS 880-35444/1-A Matrix: Solid Analysis Batch: 35468

Analysis Batch: 35468							Prep B	atch: 35444
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1093		mg/Kg		109	70 - 130	
Toluene	0.100	0.09446		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09270		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1890		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09446		mg/Kg		94	70 - 130	

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

Lab Sample ID: LCSD 880-35444/2-A Matrix: Solid

Analysis Batch: 35468

Analysis Batch: 35468						Prep E	-		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1078		mg/Kg		108	70 - 130	1	35
Toluene	0.100	0.08504		mg/Kg		85	70 - 130	10	35
Ethylbenzene	0.100	0.08150		mg/Kg		81	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1649		mg/Kg		82	70 - 130	14	35
o-Xylene	0.100	0.08006		mg/Kg		80	70 - 130	17	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-3027-1 MS Matrix: Solid

Analysis Batch: 35468

Analysis Batch: 35468									Prep E	atch: 35444
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0990	0.07495		mg/Kg		76	70 - 130	
Toluene	<0.00202	U	0.0990	0.08211		mg/Kg		82	70 - 130	

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Client Sample ID: FS01

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Job ID: 890-3027-1 SDG: Lea County NM

Client: Ensolum Project/Site: Fed 9 Com 1

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

Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35468	-1 MS							С			al/NA
	•	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00202	U	0.0990	0.08389		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene	< 0.00403	U	0.198	0.1734		mg/Kg		88	70 - 130		
o-Xylene	<0.00202	U	0.0990	0.08507		mg/Kg		86	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								
	-1 MSD							С	lient Sam	-	
Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35468	-1 MSD							С	Prep Ty	-	al/NA
Matrix: Solid		Sample	Spike	MSD	MSD			С	Prep Ty	pe: Tot	al/NA
Matrix: Solid Analysis Batch: 35468	Sample	Sample Qualifier	Spike Added	-	MSD Qualifier	Unit	D	C %Rec	Prep Ty Prep E	pe: Tot	al/NA 35444
Matrix: Solid Analysis Batch: 35468 Analyte	Sample	Qualifier	•	-	-	Unit mg/Kg	<u>D</u>		Prep Ty Prep E %Rec	pe: Tot Batch: 3	al/NA 35444 RPD
Matrix: Solid Analysis Batch: 35468 Analyte Benzene	Sample Result	Qualifier U	Added	Result	-		D	%Rec	Prep Ty Prep E %Rec Limits	pe: Tot Batch: 3	al/NA 35444 RPD Limit
Matrix: Solid Analysis Batch: 35468 Analyte Benzene Toluene	Sample 	Qualifier U U	Added	Result 0.1005	-	mg/Kg	<u>D</u>	%Rec 101	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot Batch: 3	al/NA 35444 RPD Limit 35
Matrix: Solid Analysis Batch: 35468	Sample Result <0.00202 <0.00202	Qualifier U U U	Added	Result 0.1005 0.08097	-	mg/Kg mg/Kg	<u>D</u>	%Rec 101 81	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: 3 RPD 29 1	al/NA 35444 RPD Limit 35 35
Matrix: Solid Analysis Batch: 35468 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00202 <0.00202 <0.00202	Qualifier U U U U	Added 0.0998 0.0998 0.0998	Result 0.1005 0.08097 0.07712	-	mg/Kg mg/Kg mg/Kg	D	%Rec 101 81 77	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 3 <u>RPD</u> 29 1 8	al/NA 35444 RPD Limit 35 35 35
Matrix: Solid Analysis Batch: 35468 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00403	Qualifier U U U U U U	Added 0.0998 0.0998 0.0998 0.0998 0.200	Result 0.1005 0.08097 0.07712 0.1550	-	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 101 81 77 78	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 3 29 1 8 11	al/NA 35444 RPD Limit 35 35 35 35
Matrix: Solid Analysis Batch: 35468 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202	Qualifier U U U U U U WSD	Added 0.0998 0.0998 0.0998 0.0998 0.200	Result 0.1005 0.08097 0.07712 0.1550	-	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 101 81 77 78	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 3 29 1 8 11	al/NA 35444 RPD Limit 35 35 35 35
Matrix: Solid Analysis Batch: 35468 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Sample Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 <i>MSD</i>	Qualifier U U U U U U WSD	Added 0.0998 0.0998 0.0998 0.200 0.0998	Result 0.1005 0.08097 0.07712 0.1550	-	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 101 81 77 78	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 3 29 1 8 11	al/NA 35444 RPD Limit 35 35 35 35

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

Lab Sample ID: MB 880-35263/1-A Matrix: Solid Analysis Batch: 35322

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/24/22 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/24/22 20:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/23/22 11:06	09/24/22 20:31	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	156	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

Lab Sample ID: LCS 880-35263/2-A Matrix: Solid Analysis Batch: 35322

Analysis Batch: 35322							Prep E	atch: 35263
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1065		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1082		mg/Kg		108	70 - 130	
C10-C28)								

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Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

09/23/22 11:06 09/24/22 20:31

09/23/22 11:06 09/24/22 20:31

Client Sample ID: Lab Control Sample

Prepared

Prep Type: Total/NA

Prep Batch: 35263

Dil Fac

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Job ID: 890-3027-1 SDG: Lea County NM

Client: Ensolum Project/Site: Fed 9 Com 1

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

Lab Sample ID: LCS 880- Matrix: Solid Analysis Batch: 35322	35263/2-A					Clier	nt Sai	nple ID	: Lab Cor Prep Ty Prep F		al/N
Analysis Batom Soul											
		LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	104		70 - 130								
Lab Sample ID: LCSD 880	0-35263/3-A				c	lient Sa	mple	ID: Lab		Sample	e Du
Matrix: Solid									Prep Ty		
Analysis Batch: 35322										Batch:	
,			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Gasoline Range Organics			1000	1152		mg/Kg		115	70 - 130	8	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130	1	2
c	1000	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Quannen	70 - 130								
o-Terphenyl	103		70 - 130 70 - 130								
Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35322								С			al/N
Matrix: Solid Analysis Batch: 35322	Sample	Sample Qualifier	Spike Added		MS Qualifier	Unit	D		Prep Ty	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics	Sample	Qualifier			MS Qualifier	Unit mg/Kg	<u>D</u>	С <u>%Rec</u> 98	Prep Ty Prep E %Rec	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result	Qualifier U	Added	Result			D	%Rec	Prep Ty Prep E %Rec Limits	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result <49.9 <49.9	Qualifier U	Added 996	Result 996.4		mg/Kg	<u>D</u>	%Rec 98	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Sample Result <49.9 <49.9	Qualifier U U MS	Added 996	Result 996.4		mg/Kg	<u>D</u>	%Rec 98	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	Sample Result <49.9 <49.9 MS	Qualifier U U MS	Added 996 996	Result 996.4		mg/Kg	<u>D</u>	%Rec 98	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Sample Result <49.9 <49.9 MS %Recovery	Qualifier U U MS	Added 996 996 Limits	Result 996.4		mg/Kg	<u>D</u>	%Rec 98	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot	al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	Sample Result <49.9 <49.9 MS %Recovery 110 91	Qualifier U U MS	Added 996 996 <u>Limits</u> 70 - 130	Result 996.4		mg/Kg	<u>D</u>	%Rec 98 112	Prep Ty %Rec Limits 70 - 130 70 - 130	pe: Tot 3atch: (al/N 3526
Matrix: Solid	Sample Result <49.9 <49.9 MS %Recovery 110 91	Qualifier U U MS	Added 996 996 <u>Limits</u> 70 - 130	Result 996.4		mg/Kg	<u>D</u>	%Rec 98 112	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: (al/N 3520
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid	Sample Result <49.9 <49.9 MS %Recovery 110 91	Qualifier U U MS	Added 996 996 <u>Limits</u> 70 - 130	Result 996.4		mg/Kg	<u>D</u>	%Rec 98 112	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: (ple ID: pe: Tot	FS0 al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid	Sample Result <49.9 <49.9 <i>MS</i> <i>%Recovery</i> 110 91 -1 MSD	Qualifier U U MS	Added 996 996 <u>Limits</u> 70 - 130	Result 996.4 1128		mg/Kg	<u>D</u>	%Rec 98 112	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: (FS0 3526 526 526 526 526 526
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35322	Sample Result <49.9 <49.9 MS %Recovery 110 91 -1 MSD Sample	Qualifier U MS Qualifier	Added 996 996 Limits 70 - 130 70 - 130	Result 996.4 1128 MSD	Qualifier	mg/Kg	D	%Rec 98 112	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: (ple ID: pe: Tot	FS0 al/N 3526 FS0 al/N 3526 RF
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics	Sample Result <49.9 <49.9 MS %Recovery 110 91 -1 MSD Sample	Qualifier U MS Qualifier Sample Qualifier	Added 996 996 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 996.4 1128 MSD	Qualifier	mg/Kg mg/Kg		<u>%Rec</u> 98 112	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot Batch: (ple ID: pe: Tot Batch: (FS0 al/N 3526 al/N 3526 RP Lim
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result <49.9 <49.9 <i>MS</i> <i>%Recovery</i> 110 91 -1 MSD Sample Result	Qualifier U MS Qualifier Qualifier U	Added 996 996 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 996.4 1128 MSD Result	Qualifier	mg/Kg mg/Kg Unit		<u>%Rec</u> 98 112 C	Prep Ty %Rec Limits 70 - 130 70 - 130 70 - 130	ple ID: pe: Tot pe: Tot Batch: (FS0 al/N 3526 RP Lim
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027	Sample Result <49.9 <49.9 <i>MS</i> <i>%Recovery</i> 110 91 -1 MSD Sample Result <49.9	Qualifier U MS Qualifier Qualifier U	Added 996 996 130 70 - 130 70 - 130 70 - 130 996	Result 996.4 1128 MSD Result 1092	Qualifier	mg/Kg mg/Kg Unit mg/Kg		%Rec 98 112 C %Rec 107	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	ple ID: pe: Tot pe: Tot Batch: (RPD 9	FS0 al/N
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Sample Result <49.9 <49.9 <i>MS</i> <i>%Recovery</i> 110 91 -1 MSD Sample Result <49.9	Qualifier U MS Qualifier Qualifier U U MSD	Added 996 996 130 70 - 130 70 - 130 70 - 130 996	Result 996.4 1128 MSD Result 1092	Qualifier	mg/Kg mg/Kg Unit mg/Kg		%Rec 98 112 C %Rec 107	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	ple ID: pe: Tot pe: Tot Batch: (RPD 9	FS0 al/N 3526 RP Lim 2
Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-3027 Matrix: Solid Analysis Batch: 35322 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result <49.9 <49.9 <i>MS</i> <i>%Recovery</i> 110 91 -1 MSD Sample Result <49.9 <49.9 <i>MSD</i>	Qualifier U MS Qualifier Qualifier U U MSD	Added 996 996 100 70 - 130 70 - 130 70 - 130 996 999 999 999 999	Result 996.4 1128 MSD Result 1092	Qualifier	mg/Kg mg/Kg Unit mg/Kg		%Rec 98 112 C %Rec 107	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	ple ID: pe: Tot pe: Tot Batch: (RPD 9	FS0 al/N 3526 RP Lim

Job ID: 890-3027-1 SDG: Lea County NM

Client: Ensolum Project/Site: Fed 9 Com 1

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

Lab Sample ID: MB 880-356	10/1-A						С	lient Sam	ple ID: Meth	od Bl	ank
Matrix: Solid									Prep Type:	Tota	I/NA
Analysis Batch: 35641									Prep Bato		
	r	MB MB									
Analyte	Res	ult Qualifier	RL		Unit		D	Prepared	Analyzed	Di	l Fac
Gasoline Range Organics	<5	0.0 U			mg/Kg			9/28/22 13:29			1
(GRO)-C6-C10			00.0			9		0,20,22 10.20	00,20,22 2010	•	
Diesel Range Organics (Over	<5	0.0 U	50.0		mg/Kg	g	09	9/28/22 13:29	09/29/22 20:0	5	1
C10-C28)					0	•					
Oll Range Organics (Over C28-C36)	<5	0.0 U	50.0		mg/K	g	09	9/28/22 13:29	09/29/22 20:0	5	1
0		MB MB						D			
Surrogate		ery Qualifier	Limits				_	Prepared	Analyzed		l Fac
1-Chlorooctane		23	70 - 130					9/28/22 13:29			1
o-Terphenyl	1	24	70 - 130				0	9/28/22 13:29	09/29/22 20:0	5	1
											÷.,
Lab Sample ID: LCS 880-356	610/2-A					Clie	nt S	sample ID:	Lab Contro		
Matrix: Solid									Prep Type:		
Analysis Batch: 35641									Prep Bato	h: 35	610
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits		
Gasoline Range Organics			1000	881.1		mg/Kg		88	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1075		mg/Kg		107	70 - 130		
C10-C28)											
	LCS I	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	121										
			70 - 1.30								
			70-130 70-130								
	119		70 - 130 70 - 130								
o-Terphenyl	119				c	lient S	amn	le ID: I ab	Control San	nle	Dup
o-Terphenyl Lab Sample ID: LCSD 880-3	119				С	lient Sa	amp	le ID: Lab	Control San		
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3 Matrix: Solid	119				C	lient Sa	amp	le ID: Lab	Prep Type:	Tota	I/NĂ
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3 Matrix: Solid	119		70 - 130			lient Sa	amp	le ID: Lab	Prep Type: Prep Bato	Tota h: 35	I/NÀ 5610
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641	119		70 - 130 Spike	LCSD	LCSD				Prep Type: Prep Bato %Rec	Tota h: 35	I/NA 610 RPD
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 35641 Analyte	119		70 - 130 Spike Added	Result	LCSD Qualifier	Unit		D %Rec	Prep Type: Prep Bato %Rec Limits R	Tota h: 35 PD	I/NA 610 RPD Limit
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-38 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics	119		70 - 130 Spike	-	LCSD Qualifier				Prep Type: Prep Batc %Rec	Tota h: 35	I/NA 610 RPD
o-Terphenyl Lab Sample ID: LCSD 880-3 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10	119		70 - 130 Spike Added 1000	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit 20
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	119		70 - 130 Spike Added	Result	LCSD Qualifier	Unit		D %Rec	Prep Type: Prep Bato %Rec Limits R	Tota h: 35 PD	I/NA 610 RPD Limit 20
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	119 5610/3-A		70 - 130 Spike Added 1000	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit 20
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	119		70 - 130 Spike Added 1000	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit 20
D- <i>Terphenyl</i> Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	119 5610/3-A		70 - 130 Spike Added 1000	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	119 5610/3-A		70 - 130 Spike Added 1000	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	119 5610/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	119 5610/3-A LCSD 1 %Recovery 0 107		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1164	LCSD Qualifier	Unit mg/Kg		D	Prep Type: Prep Bato %Rec Limits R 70 - 130	Tota h: 35 PD 28	I/NA 610 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	119 5610/3-A LCSD 1 %Recovery 0 107 109		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1164	LCSD Qualifier	Unit mg/Kg		D <u>%Rec</u> 116 102	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130	PD 	I/NA 610 RPD Limit 20 20
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-19720-A	119 5610/3-A LCSD 1 %Recovery 0 107 109		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1164	LCSD Qualifier	Unit mg/Kg		D <u>%Rec</u> 116 102	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130	rix S	I/NA 6610 RPD Limit 20 20
o-Terphenyl Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-19720-A Matrix: Solid	119 5610/3-A LCSD 1 %Recovery 0 107 109		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1164	LCSD Qualifier	Unit mg/Kg		D <u>%Rec</u> 116 102	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130 70 - 130 Prep Type:	rix S Total	I/NA 6610 RPD Limit 20 20 20
o-Terphenyl Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-19720-A Matrix: Solid	119 5610/3-A <u>LCSD 10</u> % <u>Recovery 0</u> 107 109 A-1-C MS	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 1164 1017	LCSD Qualifier *1	Unit mg/Kg		D <u>%Rec</u> 116 102	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130 70 - 130 Prep Type: Prep Bato	rix S Total	I/NA 6610 RPD Limit 20 20 20
o-Terphenyl Lab Sample ID: LCSD 880-34 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 0-Terphenyl Lab Sample ID: 880-19720-A Matrix: Solid Analysis Batch: 35641	119 5610/3-A LCSD 4 %Recovery 9 107 109 A-1-C MS Sample 5	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 1164 1017 MS	LCSD Qualifier *1	<mark>Unit</mark> mg/Kg mg/Kg		D <u>%Rec</u> 116 102	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130 70 - 130 70 - 130 Prep Type: Prep Bato %Rec	rix S Total	I/NA 6610 RPD Limit 20 20 20
o-Terphenyl Lab Sample ID: LCSD 880-33 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 0-Terphenyl Lab Sample ID: 880-19720-A Matrix: Solid Analysis Batch: 35641 Analyte	119 5610/3-A LCSD / %Recovery 0 107 109 A-1-C MS Sample S Result 0	Qualifier Sample Qualifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 50 - 130 70 - 130 70 - 130 Spike Added	Result 1164 1017 MS Result	LCSD Qualifier *1	Unit mg/Kg mg/Kg		<u>D</u> <u>%Rec</u> 102 Client Sar	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130 70 - 130 70 - 130 Prep Type: Prep Bato %Rec Limits	rix S Total	I/NA 6610 RPD Limit 20 20 20
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-19720-A Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics	119 5610/3-A LCSD 4 %Recovery 9 107 109 A-1-C MS Sample 5	Qualifier Sample Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 1164 1017 MS	LCSD Qualifier *1	<mark>Unit</mark> mg/Kg mg/Kg		D <u>%Rec</u> 116 102	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130 70 - 130 70 - 130 Prep Type: Prep Bato %Rec	rix S Total	I/NA 6610 RPD Limit 20 20 20
o-Terphenyl Lab Sample ID: LCSD 880-39 Matrix: Solid Analysis Batch: 35641 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 0-Terphenyl Lab Sample ID: 880-19720-A Matrix: Solid Analysis Batch: 35641 Analyte	119 5610/3-A LCSD / %Recovery 0 107 109 A-1-C MS Sample S Result 0	Qualifier Sample Qualifier J F2 *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 50 - 130 70 - 130 70 - 130 Spike Added	Result 1164 1017 MS Result	LCSD Qualifier *1	Unit mg/Kg mg/Kg		<u>D</u> <u>%Rec</u> 102 Client Sar	Prep Type: Prep Bato %Rec Limits R 70 - 130 70 - 130 70 - 130 70 - 130 Prep Type: Prep Bato %Rec Limits	rix S Total	I/NA 6610 RPD Limit 20 20 20

Eurofins Carlsbad

Lab Sample ID: 880-19720-A-1-C MS

QC Sample Results

Client: Ensolum Project/Site: Fed 9 Com 1

Analysis Batch: 35641

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

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

MS MS %Recovery Qualifier

85

79

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 35610 5 6

Lab Sample ID: 880-1972 Matrix: Solid Analysis Batch: 35641	0-A-1-D MSE)				Client S	Samp	le ID: N	latrix Spil Prep Ty Prep B	pe: Tot	al/NA
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2 *1	999	1043	F2	mg/Kg		102	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1046		mg/Kg		103	70 - 130	19	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	93		70 - 130								

Limits

70 - 130

70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-353 Matrix: Solid	17/1- A						Clie	ent Sam	ple ID: M Prep T		
Analysis Batch: 35427											
		MB MB									
Analyte		ult Qualifier			Unit		<u>D</u> _ P	repared	Analy		Dil Fac
Chloride	<5	.00 U		5.00	mg/K	g			09/27/22	00:07	1
Lab Sample ID: LCS 880-353	317/2-A					Clie	ent Sai	nple ID	: Lab Cor	ntrol Sa	mple
Matrix: Solid								· ·	Prep T		
Analysis Batch: 35427											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	·		250	240.8		mg/Kg		96	90 - 110		
Lab Sample ID: LCSD 880-3	5317/3-A				c	lient Sa	ample	ID: Lab	Control	Sample	Dup
Lab Sample ID: LCSD 880-3 Matrix: Solid	5317/3-A				C	Client Sa	ample	ID: Lab			
Matrix: Solid	5317/3-A				C	Client Sa	ample	ID: Lab	Control Prep T		
-	5317/3-A		Spike	LCSD	LCSD	Client Sa	ample	ID: Lab			
Matrix: Solid	5317/3-A		Spike Added	_		Unit	ample D	ID: Lab	Prep T		luble
Matrix: Solid Analysis Batch: 35427	5317/3-A		•	_	LCSD				Prep Ty %Rec	ype: Sc	RPD
Matrix: Solid Analysis Batch: 35427 Analyte Chloride			Added	Result	LCSD	Unit	<u>D</u>	<u>%Rec</u> 97	Prep Ty %Rec Limits 90 - 110	ype: Sc RPD	RPD Limit 20
Matrix: Solid Analysis Batch: 35427 Analyte			Added	Result	LCSD	Unit	<u>D</u>	<u>%Rec</u> 97	Prep Ty %Rec Limits 90 - 110 mple ID:	ype: So RPD 1 Matrix \$	RPD Limit 20
Matrix: Solid Analysis Batch: 35427 Analyte Chloride Lab Sample ID: 880-19603-A Matrix: Solid			Added	Result	LCSD	Unit	<u>D</u>	<u>%Rec</u> 97	Prep Ty %Rec Limits 90 - 110	ype: So RPD 1 Matrix \$	RPD Limit 20
Matrix: Solid Analysis Batch: 35427 Analyte Chloride Lab Sample ID: 880-19603-A		Sample	Added	Result 242.9	LCSD	Unit	<u>D</u>	<u>%Rec</u> 97	Prep Ty %Rec Limits 90 - 110 mple ID:	ype: So RPD 1 Matrix \$	RPD Limit 20
Matrix: Solid Analysis Batch: 35427 Analyte Chloride Lab Sample ID: 880-19603-A Matrix: Solid	A-26-B MS	•	Added 250	Result 242.9	LCSD Qualifier	Unit	<u>D</u>	<u>%Rec</u> 97	Prep Ty %Rec Limits 90 - 110 mple ID: Prep Ty	ype: So RPD 1 Matrix \$	RPD Limit 20

Eurofins Carlsbad

Client: Ensolum

Project/Site: Fed 9 Com 1

QC Sample Results

Job ID: 890-3027-1 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19603-A Matrix: Solid	-26-C MS	D				Client	Samp	le ID: N	latrix Spil Prep Ty		
Analysis Batch: 35427									Fieb 1	ype. S	oluble
Analysis Batch. 35427	Samplo	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	65.1		251	312.7	guanner	mg/Kg		99	90 - 110		20
	00.1		201	012.7		iiig/itg		00	00-110	Ū	20
Lab Sample ID: MB 880-3537	72/1-A						Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Solid									· Prep Ty		
Analysis Batch: 35453										•	
-		MB MB									
Analyte	Re	esult Qualifier		RL	Unit	I	D P	repared	Analyz	zed	Dil Fac
Chloride	<	5.00 U		5.00	mg/K	g			09/27/22	10:34	1
Lab Sample ID: LCS 880-353	372/2-A					Clie	nt Sar	mple ID	: Lab Cor		
Matrix: Solid									Prep Ty	pe: S	oluble
Analysis Batch: 35453											
			Spike	_	LCS		_		%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	254.6		mg/Kg		102	90 - 110		
Lab Sample ID: LCSD 880-3	5372/3_A					liont Sa	molo		o Control	Sampl	- D
Lab Sample ID. LOSD 000-5	JJ12/J-A				<u> </u>						
Matrix: Solid								D. Lux	Prep Ty		
			Spike	LCSD					Prep Ty		oluble
Matrix: Solid Analysis Batch: 35453			Spike Added	-	LCSD				Prep Ty %Rec	ype: S	oluble RPD
Matrix: Solid Analysis Batch: 35453 Analyte			Spike Added 250	-		Unit	<u>D</u>	%Rec 102	Prep Ty		oluble RPD Limit
Matrix: Solid Analysis Batch: 35453 Analyte			Added	Result	LCSD			%Rec	Prep Ty %Rec Limits	ype: S RPD	oluble RPD Limit
Matrix: Solid Analysis Batch: 35453 Analyte			Added	Result	LCSD	Unit	<u>D</u>	%Rec 102	Prep Ty %Rec Limits	(pe: S)	Oluble RPD Limit 20
Matrix: Solid Analysis Batch: 35453 Analyte Chloride			Added	Result	LCSD	Unit	<u>D</u>	%Rec 102	Prep Ty %Rec Limits 90 - 110	RPD 0 Watrix	Oluble RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A			Added	Result	LCSD	Unit	<u>D</u>	%Rec 102	Prep Ty %Rec Limits 90 - 110 mple ID: I	RPD 0 Watrix	Oluble RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid	38-A MS	Sample	Added	Result 254.6	LCSD	Unit	<u>D</u>	%Rec 102	Prep Ty %Rec Limits 90 - 110 mple ID: I	RPD 0 Watrix	RPD Limit 20
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid	- <mark>38-A MS</mark> Sample Result	Sample Qualifier	Added 250 Spike Added	Result 254.6 MS Result	LCSD Qualifier MS Qualifier	Unit mg/Kg Unit	<u>D</u>	%Rec 102	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits	RPD 0 Watrix	RPD Limit 20
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte	-38-A MS Sample	Sample Qualifier	Added 250 Spike	Result 254.6	LCSD Qualifier MS Qualifier	<mark>Unit</mark> mg/Kg	<u>D</u> CI	<mark>≪Rec</mark> 102 lient Sa	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec	RPD 0 Watrix	Oluble RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte Chloride	A-38-A MS Sample Result 164	Sample Qualifier F1	Added 250 Spike Added	Result 254.6 MS Result	LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg	<u>D</u> CI <u>D</u>	%Rec 102 lient Sa %Rec 117	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110	ype: So RPD 0 Watrix ype: So	oluble RPD Limit 20 Spike oluble
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A	A-38-A MS Sample Result 164	Sample Qualifier F1	Added 250 Spike Added	Result 254.6 MS Result	LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg	<u>D</u> CI <u>D</u>	%Rec 102 lient Sa %Rec 117	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110	ype: So RPD 0 Matrix ype: So we Dup	oluble RPD Limit 20 Spike oluble
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid	A-38-A MS Sample Result 164	Sample Qualifier F1	Added 250 Spike Added	Result 254.6 MS Result	LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg	<u>D</u> CI <u>D</u>	%Rec 102 lient Sa %Rec 117	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110	ype: So RPD 0 Matrix ype: So we Dup	oluble RPD Limit 20 Spike oluble
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A	Sample Result 164 A-38-B MS	Sample Qualifier F1	Added 250 Spike Added 251	Result 254.6 MS Result 457.2	LCSD Qualifier MS Qualifier F1	Unit mg/Kg Unit mg/Kg	<u>D</u> CI <u>D</u>	%Rec 102 lient Sa %Rec 117	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 Matrix Spil Prep Ty	ype: So RPD 0 Matrix ype: So we Dup	oluble RPD Limit 20 Spike oluble
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453	Sample Result 164 Sample Sample	Sample Qualifier F1 D Sample	Added 250 Spike Added 251 Spike	Result 254.6 MS Result 457.2	LCSD Qualifier MS Qualifier F1	Unit mg/Kg Unit mg/Kg Client	<u>D</u> <u>D</u> Samp	%Rec 102 ient Sa <u>%Rec</u> 117 ile ID: N	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 Matrix Spil Prep Ty %Rec	ype: So RPD 0 Watrix ype: So xe Dup ype: So	oluble RPD Limit 20 Spike oluble oluble RPD
Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid Analysis Batch: 35453 Analyte Chloride Lab Sample ID: 880-19605-A Matrix: Solid	Sample Result 164 Sample Sample	Sample Qualifier F1 D Sample Qualifier	Added 250 Spike Added 251	Result 254.6 MS Result 457.2	LCSD Qualifier MS Qualifier F1	Unit mg/Kg Unit mg/Kg	<u>D</u> CI <u>D</u>	%Rec 102 lient Sa %Rec 117	Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 Matrix Spil Prep Ty	ype: So RPD 0 Matrix ype: So we Dup	oluble RPD Limit 20 Spike oluble

Client: Ensolum Project/Site: Fed 9 Com 1

GC VOA

Prep Batch: 35444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-1	FS01	Total/NA	Solid	5035	
890-3027-2	FS02	Total/NA	Solid	5035	
890-3027-3	FS03	Total/NA	Solid	5035	
890-3027-4	FS04	Total/NA	Solid	5035	
890-3027-5	FS05	Total/NA	Solid	5035	
890-3027-6	FS06	Total/NA	Solid	5035	
890-3027-7	FS07	Total/NA	Solid	5035	
890-3027-8	FS08	Total/NA	Solid	5035	
890-3027-9	FS09	Total/NA	Solid	5035	
890-3027-10	FS10	Total/NA	Solid	5035	
MB 880-35444/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35444/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35444/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3027-1 MS	FS01	Total/NA	Solid	5035	
890-3027-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 35468

890-3027-7	FS07	Iotal/NA	Solid	5035		
890-3027-8	FS08	Total/NA	Solid	5035		8
890-3027-9	FS09	Total/NA	Solid	5035		
890-3027-10	FS10	Total/NA	Solid	5035		9
MB 880-35444/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-35444/1-A	Lab Control Sample	Total/NA	Solid	5035		10
LCSD 880-35444/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
890-3027-1 MS	FS01	Total/NA	Solid	5035		44
890-3027-1 MSD	FS01	Total/NA	Solid	5035		
Analysis Batch: 3546	58					12
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	4.9
890-3027-1	FS01	Total/NA	Solid	8021B	35444	13
890-3027-2	FS02	Total/NA	Solid	8021B	35444	
890-3027-3	FS03	Total/NA	Solid	8021B	35444	14
890-3027-4	FS04	Total/NA	Solid	8021B	35444	
890-3027-5	FS05	Total/NA	Solid	8021B	35444	
890-3027-6	FS06	Total/NA	Solid	8021B	35444	
890-3027-7	FS07	Total/NA	Solid	8021B	35444	
890-3027-8	FS08	Total/NA	Solid	8021B	35444	
890-3027-9	FS09	Total/NA	Solid	8021B	35444	
890-3027-10	FS10	Total/NA	Solid	8021B	35444	
MB 880-35444/5-A	Method Blank	Total/NA	Solid	8021B	35444	
LCS 880-35444/1-A	Lab Control Sample	Total/NA	Solid	8021B	35444	
LCSD 880-35444/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35444	
890-3027-1 MS	FS01	Total/NA	Solid	8021B	35444	
890-3027-1 MSD	FS01	Total/NA	Solid	8021B	35444	

Analysis Batch: 35535

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3027-1	FS01	Total/NA	Solid	Total BTEX	
890-3027-2	FS02	Total/NA	Solid	Total BTEX	
890-3027-3	FS03	Total/NA	Solid	Total BTEX	
890-3027-4	FS04	Total/NA	Solid	Total BTEX	
890-3027-5	FS05	Total/NA	Solid	Total BTEX	
890-3027-6	FS06	Total/NA	Solid	Total BTEX	
890-3027-7	FS07	Total/NA	Solid	Total BTEX	
890-3027-8	FS08	Total/NA	Solid	Total BTEX	
890-3027-9	FS09	Total/NA	Solid	Total BTEX	
890-3027-10	FS10	Total/NA	Solid	Total BTEX	

Job ID: 890-3027-1 SDG: Lea County NM

Client: Ensolum Project/Site: Fed 9 Com 1

GC Semi VOA

Prep Batch: 35263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-1	FS01	Total/NA	Solid	8015NM Prep	
890-3027-2	FS02	Total/NA	Solid	8015NM Prep	
890-3027-3	FS03	Total/NA	Solid	8015NM Prep	
890-3027-4	FS04	Total/NA	Solid	8015NM Prep	
890-3027-6	FS06	Total/NA	Solid	8015NM Prep	
890-3027-8	FS08	Total/NA	Solid	8015NM Prep	
890-3027-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-35263/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35263/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35263/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3027-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-3027-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-1	FS01	Total/NA	Solid	8015B NM	35263
890-3027-2	FS02	Total/NA	Solid	8015B NM	35263
890-3027-3	FS03	Total/NA	Solid	8015B NM	35263
890-3027-4	FS04	Total/NA	Solid	8015B NM	35263
890-3027-6	FS06	Total/NA	Solid	8015B NM	35263
890-3027-8	FS08	Total/NA	Solid	8015B NM	35263
890-3027-10	FS10	Total/NA	Solid	8015B NM	35263
MB 880-35263/1-A	Method Blank	Total/NA	Solid	8015B NM	35263
LCS 880-35263/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35263
LCSD 880-35263/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35263
890-3027-1 MS	FS01	Total/NA	Solid	8015B NM	35263
890-3027-1 MSD	FS01	Total/NA	Solid	8015B NM	35263

Analysis Batch: 35396

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3027-1	FS01	Total/NA	Solid	8015 NM	
890-3027-2	FS02	Total/NA	Solid	8015 NM	
890-3027-3	FS03	Total/NA	Solid	8015 NM	
890-3027-4	FS04	Total/NA	Solid	8015 NM	
890-3027-5	FS05	Total/NA	Solid	8015 NM	
890-3027-6	FS06	Total/NA	Solid	8015 NM	
890-3027-7	FS07	Total/NA	Solid	8015 NM	
890-3027-8	FS08	Total/NA	Solid	8015 NM	
890-3027-9	FS09	Total/NA	Solid	8015 NM	
890-3027-10	FS10	Total/NA	Solid	8015 NM	

Prep Batch: 35610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-5	FS05	Total/NA	Solid	8015NM Prep	
890-3027-7	FS07	Total/NA	Solid	8015NM Prep	
890-3027-9	FS09	Total/NA	Solid	8015NM Prep	
MB 880-35610/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35610/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19720-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19720-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Job ID: 890-3027-1 SDG: Lea County NM

Client: Ensolum Project/Site: Fed 9 Com 1

GC Semi VOA

Analysis Batch: 35641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-5	FS05	Total/NA	Solid	8015B NM	35610
890-3027-7	FS07	Total/NA	Solid	8015B NM	35610
890-3027-9	FS09	Total/NA	Solid	8015B NM	35610
MB 880-35610/1-A	Method Blank	Total/NA	Solid	8015B NM	35610
LCS 880-35610/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35610
LCSD 880-35610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35610
880-19720-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35610
880-19720-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35610

Leach Batch: 35317

Lab Sample ID 890-3027-1	Client Sample ID	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch	
890-3027-2	FS02	Soluble	Solid	DI Leach		
890-3027-3	FS03	Soluble	Solid	DI Leach		
890-3027-4	FS04	Soluble	Solid	DI Leach		
890-3027-5	FS05	Soluble	Solid	DI Leach		
890-3027-6	FS06	Soluble	Solid	DI Leach		
MB 880-35317/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-35317/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-35317/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
880-19603-A-26-B MS	Matrix Spike	Soluble	Solid	DI Leach		
880-19603-A-26-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		

Leach Batch: 35372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-7	FS07	Soluble	Solid	DI Leach	
890-3027-8	FS08	Soluble	Solid	DI Leach	
890-3027-9	FS09	Soluble	Solid	DI Leach	
890-3027-10	FS10	Soluble	Solid	DI Leach	
MB 880-35372/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35372/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35372/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19605-A-38-A MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19605-A-38-B MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3027-1	FS01	Soluble	Solid	300.0	35317
890-3027-2	FS02	Soluble	Solid	300.0	35317
890-3027-3	FS03	Soluble	Solid	300.0	35317
890-3027-4	FS04	Soluble	Solid	300.0	35317
890-3027-5	FS05	Soluble	Solid	300.0	35317
890-3027-6	FS06	Soluble	Solid	300.0	35317
MB 880-35317/1-A	Method Blank	Soluble	Solid	300.0	35317
LCS 880-35317/2-A	Lab Control Sample	Soluble	Solid	300.0	35317
LCSD 880-35317/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35317
880-19603-A-26-B MS	Matrix Spike	Soluble	Solid	300.0	35317
880-19603-A-26-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35317

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Job ID: 890-3027-1 SDG: Lea County NM

Client: Ensolum Project/Site: Fed 9 Com 1

Job ID: 890-3027-1 SDG: Lea County NM

HPLC/IC

Analysis Batch: 35453

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
0-3027-7	FS07	Soluble	Solid	300.0	35372
0-3027-8	FS08	Soluble	Solid	300.0	35372
0-3027-9	FS09	Soluble	Solid	300.0	35372
)-3027-10	FS10	Soluble	Solid	300.0	35372
880-35372/1-A	Method Blank	Soluble	Solid	300.0	35372
S 880-35372/2-A	Lab Control Sample	Soluble	Solid	300.0	35372
SD 880-35372/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35372
-19605-A-38-A MS	Matrix Spike	Soluble	Solid	300.0	35372
)-19605-A-38-B MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35372

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Initial

Amount

4.96 g

5 mL

10.02 g

1 uL

4.96 g

Dil

1

1

1

1

1

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Client Sample ID: FS01 Date Collected: 09/21/22 11:40 Date Received: 09/21/22 15:17

Batch

Туре

Prep

Analysis

Analysis

Analysis

Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-1 Matrix: Solid

Analyst

MNR

Prepared

or Analyzed

09/26/22 16:11

09/27/22 11:46 AJ

09/27/22 15:09 AJ

09/26/22 12:14 SM

09/23/22 11:06 DM

09/24/22 21:38 SM

09/23/22 17:46 SMC

09/27/22 02:09 CH

Batch

35444

35468

35535

35396

35263

35322

35317

35427

Number

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Lab Sample ID: 890-3027-2 Matrix: Solid

Lab Sample ID: 890-3027-3

Lab Sample ID: 890-3027-4

Matrix: Solid

Client Sample ID: FS02 Date Collected: 09/21/22 14:30 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.05 g	5 mL	35444	09/26/22 16:11	MNR	EET MID	-
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 12:06	AJ	EET MID	
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID	
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID	
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35263	09/23/22 11:06	DM	EET MID	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/24/22 22:42	SM	EET MID	
Soluble	Leach	DI Leach			5.02 g	50 mL	35317	09/23/22 17:46	SMC	EET MID	
Soluble	Analysis	300.0		1			35427	09/27/22 02:13	CH	EET MID	

Client Sample ID: FS03 Date Collected: 09/21/22 14:35 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 12:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35263	09/23/22 11:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/24/22 23:03	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	35317	09/23/22 17:46	SMC	EET MID
Soluble	Analysis	300.0		1			35427	09/27/22 02:18	СН	EET MID

Client Sample ID: FS04 Date Collected: 09/21/22 14:40 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 12:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID

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Matrix: Solid

Lab

EET MID

Analysis 8015 NM Prep 8015NM Prep Analysis 8015B NM Leach DI Leach

300.0

Batch

5035

8021B

Total BTEX

Method

Client: Ensolum Project/Site: Fed 9 Com 1

Client Sample ID: FS04 Date Collected: 09/21/22 14:40 Date Received: 09/21/22 15:17

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	35263 35322	09/23/22 11:06 09/24/22 23:24	DM SM	EET MID EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35317	09/23/22 17:46		EET MID
Soluble	Analysis	300.0		1			35427	09/27/22 02:23	СН	EET MID

Client Sample ID: FS05 Date Collected: 09/21/22 14:45 Date Received: 09/21/22 15:17

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 13:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35610	09/28/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35641	09/29/22 23:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35317	09/23/22 17:46	SMC	EET MID
Soluble	Analysis	300.0		1			35427	09/27/22 02:28	СН	EET MID

Client Sample ID: FS06

Date Collected: 09/21/22 09:30 Date Received: 09/21/22 15:17

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 13:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35263	09/23/22 11:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/25/22 00:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35317	09/23/22 17:46	SMC	EET MID
Soluble	Analysis	300.0		1			35427	09/27/22 02:33	СН	EET MID

Client Sample ID: FS07 Date Collected: 09/21/22 09:45 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 13:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	35610 35641	09/28/22 13:29 09/30/22 00:00	DM SM	EET MID EET MID

Eurofins Carlsbad

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Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-4 Matrix: Solid

Lab Sample ID: 890-3027-5

9 10 11 12 13

Lab Sample ID: 890-3027-6

Lab Sample ID: 890-3027-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: Ensolum Project/Site: Fed 9 Com 1

Client Sample ID: FS07 Date Collected: 09/21/22 09:45 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	35372	09/26/22 10:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35453	09/27/22 14:13	CH	EET MID

Client Sample ID: FS08 Date Collected: 09/21/22 10:02 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 14:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35263	09/23/22 11:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/25/22 00:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35372	09/26/22 10:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35453	09/27/22 14:19	CH	EET MID

Client Sample ID: FS09 Date Collected: 09/21/22 10:20 Date Received: 09/21/22 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 14:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35610	09/28/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35641	09/30/22 00:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35372	09/26/22 10:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35453	09/27/22 14:25	CH	EET MID

Client Sample ID: FS10 Date Collected: 09/21/22 11:30 Date Received: 09/21/22 15:17

Lab Sample ID: 890-3027-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35444	09/26/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35468	09/27/22 14:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35535	09/27/22 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35396	09/26/22 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35263	09/23/22 11:06	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/25/22 01:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35372	09/26/22 10:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35453	09/27/22 14:31	СН	EET MID

Eurofins Carlsbad

Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID: 890-3027-7 Matrix: Solid

Lab Sample ID: 890-3027-8

Lab Sample ID: 890-3027-9

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Project/Site: Fed 9 Com 1

Laboratory References:

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

Job ID: 890-3027-1 SDG: Lea County NM

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: Fed 9 Com 1 Job ID: 890-3027-1 SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority exas		ogram ELAP		entification Number	- Expiration Date 06-30-23
The following analytes	are included in this repo	ort, but the laboratory is r	not certified by t	ne governing authority.	This list may include analytes for which
the agency does not o	ffer certification.				
the agency does not o Analysis Method	ffer certification. Prep Method	Matrix	Analy	rte	
0,		Matrix Solid	Analy Total		

Eurofins Carlsbad

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10

Method Summary

Client: Ensolum Project/Site: Fed 9 Com 1 Job ID: 890-3027-1 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: Fed 9 Com 1 Job ID: 890-3027-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3027-1	FS01	Solid	09/21/22 11:40	09/21/22 15:17	2'
890-3027-2	FS02	Solid	09/21/22 14:30	09/21/22 15:17	1'
890-3027-3	FS03	Solid	09/21/22 14:35	09/21/22 15:17	0.5'
890-3027-4	FS04	Solid	09/21/22 14:40	09/21/22 15:17	0.5'
890-3027-5	FS05	Solid	09/21/22 14:45	09/21/22 15:17	0.5'
890-3027-6	FS06	Solid	09/21/22 09:30	09/21/22 15:17	1'
890-3027-7	FS07	Solid	09/21/22 09:45	09/21/22 15:17	1'
890-3027-8	FS08	Solid	09/21/22 10:02	09/21/22 15:17	1'
890-3027-9	FS09	Solid	09/21/22 10:20	09/21/22 15:17	1'
890-3027-10	FS10	Solid	09/21/22 11:30	09/21/22 15:17	1.5'

Date/Time		A P	4-21-22 151	4	I'M MA		1	110
	Received by: (Signature)	Relinquished by: (Signature)	te/Time		Received by: (Signature)	ture)	Relinquished by: (Signature)	Relinquishe
	rd conditions I the control vriously negotiated.	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.	ofins Xenco, Its affiliates and nses incurred by the client if Eurofins Xenco, but not anal	er from client company to Eu nsibility for any losses or expe for each sample submitted to	is constitutes a valid purchase ord es and shall not assume any respo p each project and a charge of \$5	relinquishment of sample only for the cost of sample of \$85.00 will be applied to	this document and (enco will be liable minimum charge (lotice: Signature of t of service. Eurofins X of Eurofins Xenco. A
7470 / 7471	Hg: 1631 / 245.1 ,	Cd Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba Be Cd (TCLP / SPLP 6010 : 8RCRA	yzed TCLP / SI	Circle Method(s) and Metal(s) to be analyzed	od(s) and Me	Circle Metho
TI Sn U V Zn	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr T	Ca Cr Co Cu Fe Pb	Al Sb As Ba Be B Cd	Texas 11	8RCRA 13PPM	200.8 / 6020:	/ 6010	Total 200.7 / 6010
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NO PPZZISSUP721				4	9-21-22 930		0	FS06
incident #:				0.S	5441 22-42-b	-		FSOS
				0.S	9-24-22 1440	40 0		FSOU
Urder: 1723059				0.5	9-24-20 1435	-	~	FS03
Maintenance				2	9-20-22 1430		2	FSO
CC # A7623615M			-	2 0 1	9-21-22 140	S	10	FS0
Sample Comments			Bto TPI Chi	Depth Grab/ # of Comp Cont	Date Time Sampled Sampled	Matrix	Sample Identification	Sample
NaUH+ASCORDIC ACID: SAPC			-	28.0	Corrected Temperature:		S:	Total Containers:
Zn Acetate+NaOH: Zn	_		ide	27.2	Temperature Reading:	Yes NO WA		Sample Custody Seals:
Na 2S 2O3: NaSO 3	Chain of Custody	890-3027 Chain	21	2	Correction Factor:	Yes No ATA	Seals:	Cooler Custody Seals:
NaHSO 4: NABIS					Thermometer ID:		ed Intact:	Samples Received Intact:
H ₃ PO ₄ : HP				Ye No	Yes No Wet Ice:	Temp Blank:	EIPT	SAMPLE RECEIPT
H ₂ SO ₄ : H ₂ NaOH: Na				the lab, if received by 4:30pm	the lab, if reco	A	Z	PO #:
HCL: HC HNO 3: HN				day received by			_	Sampler's Name:
Cool: Cool MeOH: Me				3 day tot	NM Due Date:	00	" Lea	Project Location:
None: NO DI Water: H ₂ O				MRush Code	DN3 Routine	3020240		Project Number:
Preservative Codes		ANALYSIS REQUEST		Turn Around	1 Turn	9 com	Fed	Project Name:
Other:	Deliverables: EDD ADaPT	cam	Censolum.	Jadams	31 Email:	351784	303	Phone:
PST/UST TRRP Level IV	Reporting: Level II Level III PS	MW BERN	Carisbao	City, State ZIP:	M	risbad h	Ca	City, State ZIP:
		Nati. Parki Hwy	3177 No	Address:	Parks Huuy	17. Nati	317	Address:
nfields RRC Superfund	Program: UST/PST PRP Brownfields		Ensolum	Company Name:		mulosi	F	Company Name:
nments	Work Order Comments	Idams	JOSIN A	Bill to: (if different)	SUN	Iosin Adams	r	Project Manager:
Page of	www.xenco.com	NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM				
		TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX (Xenco		
	Work Order No:	rx (214) 902-0300 o, TX (210) 509-3334	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, T) Midland, TX (4	Environment Testing		CUIVIIIS	
		louy		C		-	tin time	

10/5/2022 (Rev. 1)

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Job Number: 890-3027-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3027 List Number: 1 Creator: Stutzman, Amanda

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-3027-1 SDG Number: Lea County NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3027 List Number: 2 Cr

List Number: 2			List Creation: 09/23/22 10:43 AM
Creator: Rodriguez, Leticia			
Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		
Sample custody seals, if present, are intact.	N/A		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		

Containers requiring zero headspace have no headspace or bubble is N/A <6mm (1/4").

Received by OCD: 11/15/2022 8:28:18 PM

LINKS

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3186-1

Laboratory Sample Delivery Group: 03D2024073 Client Project/Site: Federal Com 9

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/17/2022 11:33:25 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.

SDG: 03D2024073

Laboratory Job ID: 890-3186-1

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	Definitions/Glossary	
Client: Ensolum	-	Job ID: 890-3186-1
Project/Site: Fe		SDG: 03D2024073
Qualifiers		
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC	· · ·	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	·
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac		
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) Maat Brahabla Number	
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	

- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)

Presumptive

Quality Control

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

PRES

QC

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Job ID: 890-3186-1 SDG: 03D2024073

Job ID: 890-3186-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3186-1

Receipt

The samples were received on 10/7/2022 1:35 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 2.6°C

Receipt Exceptions

The following samples analyzed were received and analyzed from an unpreserved bulk soil jar: FS10A (890-3186-1), FS05A (890-3186-2), FS08A (890-3186-3) and FS07A (890-3186-4).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-36976 and analytical batch 880-37017 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-20395-A-1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS05A (890-3186-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36976 and analytical batch 880-37017 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-36688 and analytical batch 880-36637 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-36688 and analytical batch 880-36637 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-36531 and analytical batch 880-36746 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Job ID: 890-3186-1 SDG: 03D2024073

Client Sample ID: FS10A

Date Collected: 10/07/22 10:20 Date Received: 10/07/22 13:35

Project/Site: Federal Com 9

Sample Depth: 2

Client: Ensolum

Lab Sample ID: 890-3186

Matrix: Sol

-1 lid	
_	5
∃ac 1 1	
1 1	
' 1 1	8
Fac	9
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1	
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1	

Matrix: Solid

Lab Sample ID: 890-3186-2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/22 14:04	10/15/22 22:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/22 14:04	10/15/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/14/22 14:04	10/15/22 22:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/22 14:04	10/15/22 22:07	1
- Method: TAL SOP Total BTEX - "	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			10/17/22 12:04	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	D	Prepared	Analyzed 10/12/22 10:56	Dil Fac
Analyte	Result <49.9	Qualifier U	RL 49.9		<u> </u>	Prepared		
Analyte Total TPH	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u> 	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9 sel Range Orga	Qualifier	(GC)	mg/Kg			10/12/22 10:56	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *1	(GC) RL	mg/Kg Unit		Prepared	10/12/22 10:56 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result Result	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.9 (GC) RL 49.9	Unit mg/Kg		Prepared 10/11/22 14:40	10/12/22 10:56 Analyzed 10/12/22 04:17	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U*1 U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/22 14:40 10/11/22 14:40	Analyzed 10/12/22 04:17 10/12/22 04:17	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U*1 U	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/22 14:40 10/11/22 14:40 10/11/22 14:40	Analyzed 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U*1 U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/22 14:40 10/11/22 14:40 10/11/22 14:40 Prepared	Analyzed 10/12/22 10:56 Analyzed 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U *1 U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/22 14:40 10/11/22 14:40 10/11/22 14:40 Prepared 10/11/22 14:40	Analyzed 10/12/22 10:56 Analyzed 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U *1 U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/11/22 14:40 10/11/22 14:40 10/11/22 14:40 Prepared 10/11/22 14:40	Analyzed 10/12/22 10:56 Analyzed 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17 10/12/22 04:17	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1

Client Sample ID: FS05A Date Collected: 10/07/22 10:25 Date Received: 10/07/22 13:35

Sample Depth: 1

Г

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:28	1	
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:28	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:28	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/22 14:04	10/15/22 22:28	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/15/22 22:28	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/22 14:04	10/15/22 22:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		70 - 130			10/14/22 14:04	10/15/22 22:28	1	

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Client Sample Results

Limits

70 - 130

RL

RL

50.0

RL

50 0

0.00399

Job ID: 890-3186-1 SDG: 03D2024073

Analyzed

10/15/22 22:28

Analyzed

10/17/22 12:04

Analyzed

10/12/22 10:56

Analyzed

10/12/22 04:39

10/12/22 04:39

10/12/22 04:39

Analyzed

10/12/22 04:39

10/12/22 04:39

Lab Sample ID: 890-3186-3

Prepared

10/14/22 14:04

Prepared

Prepared

Prepared

10/11/22 14:40

10/11/22 14:40

D

D

D

Client Sample ID: FS05A

Date Collected: 10/07/22 10:25 Date Received: 10/07/22 13:35

Project/Site: Federal Com 9

Sample Depth: 1

1,4-Difluorobenzene (Surr)

Casalina Danga Organia

Surrogate

Analyte

Analyte

Analyte

o-Terphenyl

Total TPH

Total BTEX

Client: Ensolum

Unit

Unit

Unit

malka

mg/Kg

mg/Kg

Lab Sample ID: 890-3186-2 Matrix: Solid 5 Dil Fac Dil Fac Dil Fac 1 Dil Fac

1

1

Dil Fac

Matrix: Solid

1-Chlorooctane	90		70 - 130		10/11/22 14:40
Surrogate	%Recovery	Qualifier	Limits		Prepared
Oll Range Organics (Over C28-C36)	135		50.0	mg/Kg	10/11/22 14:40
Diesel Range Organics (Over C10-C28)	757		50.0	mg/Kg	10/11/22 14:40
(GRO)-C6-C10					
Gasoline Range Organics	<50.0	0 "1	50.0	mg/Kg	10/11/22 14:40

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

69 S1-

Result Qualifier

Ū

Result Qualifier

Result Qualifier

~50.0 11.*1

96

892

<0.00399

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127	4.97	mg/Kg			10/12/22 05:06	1

70 - 130

Client Sample ID: FS08A

Date Collected: 10/07/22 10:35 Date Received: 10/07/22 13:35 Sample Depth: 1.5

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 10/14/22 14:04 10/15/22 22:49 Toluene <0.00200 U 0.00200 mg/Kg 10/14/22 14:04 10/15/22 22:49 1 Ethylbenzene <0.00200 U 0.00200 10/14/22 14:04 10/15/22 22:49 mg/Kg 0.00401 10/15/22 22:49 m-Xylene & p-Xylene <0.00401 U 10/14/22 14:04 mg/Kg 1 o-Xylene <0.00200 U 0.00200 mg/Kg 10/14/22 14:04 10/15/22 22:49 Xylenes, Total <0.00401 U 0.00401 mg/Kg 10/14/22 14:04 10/15/22 22:49 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 70 - 130 10/14/22 14:04 4-Bromofluorobenzene (Surr) 117 10/15/22 22:49 1 1,4-Difluorobenzene (Surr) 95 70 - 130 10/14/22 14:04 10/15/22 22:49 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analvte Result Qualifier RL D Unit Prepared Analvzed Dil Fac Total BTEX <0.00401 Ū 0.00401 10/17/22 12:04 mg/Kg 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <49.8 U Total TPH 49.8 mg/Kg 10/12/22 10:56 1

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Client Sample Results

Job ID: 890-3186-1 SDG: 03D2024073

Lab Sample ID: 890-3186-3

Lab Sample ID: 890-3186-4

Matrix: Solid

Client Sample ID: FS08A

Project/Site: Federal Com 9

Date Collected: 10/07/22 10:35 Date Received: 10/07/22 13:35

Sample Depth: 1.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Di
Gasoline Range Organics	<49.8	U *1	49.8	mg/Kg		10/11/22 14:40	10/12/22 05:00	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		10/11/22 14:40	10/12/22 05:00	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/11/22 14:40	10/12/22 05:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	D
1-Chlorooctane	93		70 - 130			10/11/22 14:40	10/12/22 05:00	
o-Terphenyl	99		70 - 130			10/11/22 14:40	10/12/22 05:00	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.1		4.98	mg/Kg			10/12/22 05:23	1

Client Sample ID: FS07A

Date Collected: 10/07/22 10:45

Date Received: 10/07/22 13:35 Sample Depth: 1.5

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/16/22 00:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/16/22 00:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/16/22 00:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/14/22 14:04	10/16/22 00:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/14/22 14:04	10/16/22 00:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/14/22 14:04	10/16/22 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			10/14/22 14:04	10/16/22 00:32	1
1,4-Difluorobenzene (Surr)	81		70 - 130			10/14/22 14:04	10/16/22 00:32	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399		0.00399	mg/Kg			10/17/22 12:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		49.9	mg/Kg			10/12/22 10:56	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (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		10/11/22 14:40	10/12/22 05:22	1
Diesel Range Organics (Over C10-C28)	180		49.9	mg/Kg		10/11/22 14:40	10/12/22 05:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/11/22 14:40	10/12/22 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			10/11/22 14:40	10/12/22 05:22	1
o-Terphenyl	82		70 - 130			10/11/22 14:40	10/12/22 05:22	1

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		Client	Sample Res	sults					1
Client: Ensolum Project/Site: Federal Com 9							Job ID: 890 SDG: 03D2		2
Client Sample ID: FS07A Date Collected: 10/07/22 10:45						Lab Sa	mple ID: 890- Matri	3186-4 x: Solid	
Date Received: 10/07/22 13:35 Sample Depth: 1.5									4
Method: MCAWW 300.0 - Anions, Io Analyte		graphy - Solu Qualifier	uble RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	121		5.00	mg/Kg			10/12/22 05:28	1	
									8
									9
									13

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Client: Ensolum Project/Site: Federal Com 9

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limi
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
20395-A-1-B MS	Matrix Spike	93	97	
395-A-1-C MSD	Matrix Spike Duplicate	114	88	
86-1	FS10A	110	98	
186-2	FS05A	108	69 S1-	
86-3	FS08A	117	95	
186-4	FS07A	115	81	
30-36976/1-A	Lab Control Sample	86	93	
880-36976/2-A	Lab Control Sample Dup	84	94	
880-36976/5-A	Method Blank	96	88	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

					_
-				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-20176-A-1-H MS	Matrix Spike	107	110		
880-20176-A-1-I MSD	Matrix Spike Duplicate	96	100		
890-3186-1	FS10A	70	78		
890-3186-2	FS05A	90	96		
890-3186-3	FS08A	93	99		
890-3186-4	FS07A	73	82		
LCS 880-36688/2-A	Lab Control Sample	92	113		
LCSD 880-36688/3-A	Lab Control Sample Dup	103	121		
MB 880-36688/1-A	Method Blank	11 S1-	11 S1-		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

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Job ID: 890-3186-1

SDG: 03D2024073

Prep Type: Total/NA

5 6 7

Released to Imaging: 12/14/2022 10:39:19 AM

Client: Ensolum

Project/Site: Federal Com 9

Job ID: 890-3186-1 SDG: 03D2024073

Lab Sample ID: MB 880-36976/5-A									Client Sa	mple ID: Meth	od Blank
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 37017										Prep Bato	h: 36976
		ΜВ	MB								
Analyte	Re	esult	Qualifier	R	L	Unit		DF	Prepared	Analyzed	Dil Fac
Benzene	<0.00	0200	U	0.0020	0	mg/K	g	10/	14/22 14:04	10/15/22 19:40	1
Toluene	<0.00	0200	U	0.0020	D	mg/K	g	10/	14/22 14:04	10/15/22 19:40	1
Ethylbenzene	<0.00	0200	U	0.0020	D	mg/K	g	10/	14/22 14:04	10/15/22 19:40	1
m-Xylene & p-Xylene	<0.00	0400	U	0.0040	D	mg/K	g	10/	14/22 14:04	10/15/22 19:40	1
o-Xylene	<0.00	0200	U	0.0020	D	mg/K	g	10/	14/22 14:04	10/15/22 19:40	1
Xylenes, Total	<0.00	0400	U	0.0040	D	mg/K	g	10/	14/22 14:04	10/15/22 19:40	1
		ΜВ	МВ								
Surrogate	%Reco	very	Qualifier	Limits				I	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		96		70 - 130	_			10/	14/22 14:04	10/15/22 19:40	1
1,4-Difluorobenzene (Surr)		88		70 - 130				10/	14/22 14:04	10/15/22 19:40	1
Lab Sample ID: LCS 880-36976/1-A								Clien	t Sample	ID: Lab Contro	I Sample
Matrix: Solid										Prep Type:	
Analysis Batch: 37017										Prep Bato	
				Spike	LCS	LCS				%Rec	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene				0.100	0.1035		mg/Kg		103	70 - 130	
Toluene				0.100	0.09984		mg/Kg		100	70 - 130	
Ethylbenzene				0.100	0.08928		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene				0.200	0.1795		mg/Kg		90	70 - 130	
o-Xylene				0.100	0.09130		mg/Kg		91	70 - 130	
	LCS	LCS									
Surrogate %	Recovery	Qua	lifier	Limits							
4-Bromofluorobenzene (Surr)	86			70 - 130							

4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130
_		

Lab Sample ID: LCSD 880-36976/2-A

Matrix: Solid Analysis Patch: 27017

								36976
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1082		mg/Kg		108	70 - 130	4	35
0.100	0.1038		mg/Kg		104	70 - 130	4	35
0.100	0.09363		mg/Kg		94	70 - 130	5	35
0.200	0.1920		mg/Kg		96	70 - 130	7	35
0.100	0.09683		mg/Kg		97	70 - 130	6	35
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.1082 0.100 0.1038 0.100 0.1038 0.100 0.09363 0.200 0.1920	Added Result Qualifier 0.100 0.1082 0.1082 0.100 0.1038 0.1038 0.100 0.09363 0.200	Added Result Qualifier Unit 0.100 0.1082 mg/Kg 0.100 0.1038 mg/Kg 0.100 0.09363 mg/Kg 0.200 0.1920 mg/Kg	Added Result Qualifier Unit D 0.100 0.1082 mg/Kg 0.100 0.1038 mg/Kg 0.100 0.09363 mg/Kg 0.200 0.1920 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1082 mg/Kg 108 0.100 0.1038 mg/Kg 104 0.100 0.09363 mg/Kg 94 0.200 0.1920 mg/Kg 96	Spike LCSD LCSD With the second s	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1082 mg/Kg 108 70 - 130 4 0.100 0.1038 mg/Kg 104 70 - 130 4 0.100 0.09363 mg/Kg 94 70 - 130 5 0.200 0.1920 mg/Kg 96 70 - 130 7

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-20395-A-1-B MS Matrix: Solid

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Analysis Batch: 37	7017								Prep	Batch: 36976
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F2 F1	0.100	0.08441		mg/Kg		84	70 - 130	
Toluene	<0.00202	U F2 F1	0.100	0.07227		mg/Kg		72	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: Federal Com 9

1,4-Difluorobenzene (Surr)

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

										Batch:	tal/NA 36976
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00202	U F1	0.100	0.05766	F1	mg/Kg		57	70 - 130		
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1558		mg/Kg		78	70 - 130		
o-Xylene	<0.00202	U F1	0.100	0.07839		mg/Kg		78	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								
Lab Sample ID: 880-20395-A-	-1-C MSD					CI	ient Sa	ample ID	: Matrix Sp	oike Dur	olicate
Matrix: Solid										Type: To	
Analysis Batch: 37017										Batch:	
·····, ····	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U F2 F1	0.0990	0.03276	F2 F1	mg/Kg		33	70 - 130	88	35
Toluene	<0.00202	U F2 F1	0.0990	0.03934	F2 F1	mg/Kg		40	70 - 130	59	35
Ethylbenzene	<0.00202	U F1	0.0990	0.04508	F1	mg/Kg		46	70 - 130	24	3
m-Xylene & p-Xylene	<0.00403	U F1	0.198	0.1249	F1	mg/Kg		63	70 - 130	22	3
o-Xylene	<0.00202	U F1	0.0990	0.06460	F1	mg/Kg		65	70 - 130	19	3
	MSD	MSD									

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

88

Lab Sample ID: MB 880-36688/1-A						Client Sa	mple ID: Metho	d Blank
Matrix: Solid							Prep Type: 1	Total/NA
Analysis Batch: 36637							Prep Batch	
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/11/22 14:40	10/11/22 20:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/11/22 14:40	10/11/22 20:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/11/22 14:40	10/11/22 20:40	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	11	S1-	70 - 130			10/11/22 14:40	10/11/22 20:40	1
o-Terphenyl	11	S1-	70 - 130			10/11/22 14:40	10/11/22 20:40	1

70 - 130

Matrix: Solid Analysis Batch: 36637 Spike LCS LCS hobb A Anal Gase (GRO

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	880.8		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	927.8		mg/Kg		93	70 - 130	
C10-C28)								

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Prep Type: Total/NA

%Rec

Prep Batch: 36688

QC Sample Results

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

Lab Sample ID: LCS 880-36	688/2-A						Client	t Sample	ID: Lab Co		
Matrix: Solid									Prep T	ype: To	tal/N/
Analysis Batch: 36637									Prep	Batch:	3668
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	113		70 - 130								
_ab Sample ID: LCSD 880-3	6688/3-A					Clier	nt San	n <mark>ple ID:</mark> I	Lab Contro	I Sampl	e Du
Matrix: Solid									Prep T	ype: To	tal/N
Analysis Batch: 36637									Prep	Batch:	3668
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics (GRO)-C6-C10			1000	1196	*1	mg/Kg		120	70 - 130	30	2
Diesel Range Organics (Over C10-C28)			1000	992.8		mg/Kg		99	70 - 130	7	2
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
I-Chlorooctane	103		70 - 130								
o-Terphenyl	121		70 - 130								
naluta		Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	%Rec Limits		
Analyte Gasoline Range Organics			999	888.3	Quaimer				70 - 130		
GRO)-C6-C10	\$49.0	0 1	999	000.3		mg/Kg		09	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1047		mg/Kg		105	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
I-Chlorooctane			70 - 130								
p-Terphenyl	107		70 - 130								
, loiphonyi	110		101100								
_ab Sample ID: 880-20176-/	A-1-I MSD					CI	ient S	ample IC	: Matrix Sp	oike Dup	licat
Matrix: Solid										ype: To	
Analysis Batch: 36637										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics GRO)-C6-C10	<49.8	U *1	997	1066		mg/Kg		107	70 - 130	18	2
	-10.0	U	997	950.8		mg/Kg		95	70 - 130	10	2
	<49.8										
		MSD									
C10-C28)		MSD Qualifier	Limits								
Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	MSD		Limits								

70 _ 130

Client: Ensolum

Project/Site: Federal Com 9

QC Sample Results

Job ID: 890-3186-1 SDG: 03D2024073

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-36531/1-A Matrix: Solid											Client S	ample ID: N Prep 1	<mark>/lethod</mark> Гуре: S	
Analysis Batch: 36746														
		MB	МВ											
Analyte	R	esult	Qualifier		RL		Uni	it	D	Р	repared	Analyze	ed	Dil Fac
Chloride	<	<5.00	U		5.00		mg	/Kg				10/12/22 0	3:11	1
Lab Sample ID: LCS 880-36531/2-/	λ								С	ient	Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid												Prep 1	Гуре: S	oluble
Analysis Batch: 36746														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		260.8		mg/Kg			104	90 - 110		
Lab Sample ID: LCSD 880-36531/3	- A							СІ	ient	Sam	ple ID:	_ab Control	Sampl	le Dup
Matrix: Solid											-	Prep 7	Гуре: S	oluble
Analysis Batch: 36746														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		259.6		mg/Kg		_	104	90 - 110	0	20
- Lab Sample ID: 890-3183-A-9-B M	5										Client	Sample ID:	Matrix	Spike
Matrix: Solid												Prep	Гуре: S	oluble
Analysis Batch: 36746														
	Sample	Samp	ole	Spike		MS	MS					%Rec		
Analyte	Result	Quali	fier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	90.6	F1		252		349.7		mg/Kg		_	103	90 - 110		
- Lab Sample ID: 890-3183-A-9-C M	SD								Clier	nt Sa	ample IC	: Matrix Sp	ike Dur	plicate
Matrix: Solid													Type: S	
Analysis Batch: 36746												•		
-	Sample	Samp	ole	Spike		MSD	MSD					%Rec		RPD
		-												
Analyte	Result	Quali	fier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

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Released to Imaging: 12/14/2022 10:39:19 AM

QC Association Summary

Client: Ensolum Project/Site: Federal Com 9

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Job ID: 890-3186-1 SDG: 03D2024073

GC VOA

Prep Batch: 36976 Lab Sample ID **Client Sample ID** Method Prep Batch Prep Type Matrix Total/NA 890-3186-1 FS10A Solid 5035 FS05A 890-3186-2 Total/NA Solid 5035 Total/NA 890-3186-3 FS08A Solid 5035 890-3186-4 FS07A Total/NA Solid 5035 MB 880-36976/5-A Method Blank Total/NA Solid 5035 LCS 880-36976/1-A Lab Control Sample Total/NA Solid 5035 LCSD 880-36976/2-A Lab Control Sample Dup Total/NA Solid 5035 880-20395-A-1-B MS Total/NA Solid 5035 Matrix Spike 880-20395-A-1-C MSD Matrix Spike Duplicate Total/NA Solid 5035

Analysis Batch: 37017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3186-1	FS10A	Total/NA	Solid	8021B	36976	
890-3186-2	FS05A	Total/NA	Solid	8021B	36976	
890-3186-3	FS08A	Total/NA	Solid	8021B	36976	
890-3186-4	FS07A	Total/NA	Solid	8021B	36976	
MB 880-36976/5-A	Method Blank	Total/NA	Solid	8021B	36976	
LCS 880-36976/1-A	Lab Control Sample	Total/NA	Solid	8021B	36976	12
LCSD 880-36976/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	36976	13
880-20395-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	36976	
880-20395-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	36976	

Analysis Batch: 37146

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3186-1	FS10A	Total/NA	Solid	Total BTEX	
890-3186-2	FS05A	Total/NA	Solid	Total BTEX	
890-3186-3	FS08A	Total/NA	Solid	Total BTEX	
890-3186-4	FS07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 36637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3186-1	FS10A	Total/NA	Solid	8015B NM	36688
890-3186-2	FS05A	Total/NA	Solid	8015B NM	36688
890-3186-3	FS08A	Total/NA	Solid	8015B NM	36688
890-3186-4	FS07A	Total/NA	Solid	8015B NM	36688
MB 880-36688/1-A	Method Blank	Total/NA	Solid	8015B NM	36688
LCS 880-36688/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	36688
LCSD 880-36688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	36688
880-20176-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	36688
880-20176-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	36688

Prep Batch: 36688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3186-1	FS10A	Total/NA	Solid	8015NM Prep	
890-3186-2	FS05A	Total/NA	Solid	8015NM Prep	
890-3186-3	FS08A	Total/NA	Solid	8015NM Prep	
890-3186-4	FS07A	Total/NA	Solid	8015NM Prep	
MB 880-36688/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-36688/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Project/Site: Federal Com 9

GC Semi VOA (Continued)

Prep Batch: 36688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-36688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-20176-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-20176-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 36749					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3186-1	FS10A	Total/NA	Solid	8015 NM	
890-3186-2	FS05A	Total/NA	Solid	8015 NM	
890-3186-3	FS08A	Total/NA	Solid	8015 NM	
890-3186-4	FS07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 36531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3186-1	FS10A	Soluble	Solid	DI Leach	
890-3186-2	FS05A	Soluble	Solid	DI Leach	
890-3186-3	FS08A	Soluble	Solid	DI Leach	
890-3186-4	FS07A	Soluble	Solid	DI Leach	
MB 880-36531/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-36531/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-36531/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3183-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3183-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 36746

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3186-1	FS10A	Soluble	Solid	300.0	36531
890-3186-2	FS05A	Soluble	Solid	300.0	36531
890-3186-3	FS08A	Soluble	Solid	300.0	36531
890-3186-4	FS07A	Soluble	Solid	300.0	36531
MB 880-36531/1-A	Method Blank	Soluble	Solid	300.0	36531
LCS 880-36531/2-A	Lab Control Sample	Soluble	Solid	300.0	36531
LCSD 880-36531/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	36531
890-3183-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	36531
890-3183-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	36531

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5

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Job ID: 890-3186-1 SDG: 03D2024073

Lab Sample ID: 890-3186-1 Matrix: Solid

Lab Sample ID: 890-3186-2

Lab Sample ID: 890-3186-3

Lab Sample ID: 890-3186-4

Matrix: Solid

Matrix: Solid

Date Collected: 10/07/22 10:20 Date Received: 10/07/22 13:35

Client Sample ID: FS10A

Project/Site: Federal Com 9

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36976	10/14/22 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37017	10/15/22 22:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37146	10/17/22 12:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			36749	10/12/22 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	36688	10/11/22 14:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36637	10/12/22 04:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	36531	10/10/22 10:09	СН	EET MID
Soluble	Analysis	300.0		1			36746	10/12/22 05:01	СН	EET MID

Client Sample ID: FS05A

Date Collected: 10/07/22 10:25 Date Received: 10/07/22 13:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36976	10/14/22 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37017	10/15/22 22:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37146	10/17/22 12:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			36749	10/12/22 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	36688	10/11/22 14:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36637	10/12/22 04:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	36531	10/10/22 10:09	СН	EET MID
Soluble	Analysis	300.0		1			36746	10/12/22 05:06	СН	EET MID

Client Sample ID: FS08A

Date Collected: 10/07/22 10:35

Date Received: 10/07/22 13:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	36976	10/14/22 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37017	10/15/22 22:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37146	10/17/22 12:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			36749	10/12/22 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	36688	10/11/22 14:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36637	10/12/22 05:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	36531	10/10/22 10:09	СН	EET MID
Soluble	Analysis	300.0		1			36746	10/12/22 05:23	СН	EET MID

Client Sample ID: FS07A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	36976	10/14/22 14:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	37017	10/16/22 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			37146	10/17/22 12:04	SM	EET MID

Eurofins Carlsbad

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Date Collected: 10/07/22 10:45 Date Received: 10/07/22 13:35

Matrix: Solid

Job ID: 890-3186-1

SDG: 03D2024073

Matrix: Solid

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Lab Sample ID: 890-3186-4

Lab Chronicle

Client: Ensolum Project/Site: Federal Com 9

Client Sample ID: FS07A Date Collected: 10/07/22 10:45

Date Received: 10/07/22 13:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			36749	10/12/22 10:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	36688	10/11/22 14:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	36637	10/12/22 05:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	36531	10/10/22 10:09	СН	EET MID
Soluble	Analysis	300.0		1			36746	10/12/22 05:28	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 12/14/2022 10:39:19 AM

Laboratory: Eurofins Midland

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

thority		Program	Identification Number	Expiration Date
kas	Ī	NELAP	T104704400-22-24	06-30-23
The following analytes the agency does not o		but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
0,		Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

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Job ID: 890-3186-1

SDG: 03D2024073

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: Federal Com 9 Job ID: 890-3186-1 SDG: 03D2024073

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	E
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 Refe	rences:			8
ASTM = A	STM International			
MCAWW	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March	1983 And Subsequent Revisions.		9
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editior	n, November 1986 And Its Updates.		
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure			

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 12/14/2022 10:39:19 AM

Client: Ensolum Project/Site: Federal Com 9 Job ID: 890-3186-1 SDG: 03D2024073

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3186-1	FS10A	Solid	10/07/22 10:20	10/07/22 13:35
890-3186-2	FS05A	Solid	10/07/22 10:25	10/07/22 13:35
890-3186-3	FS08A	Solid	10/07/22 10:35	10/07/22 13:35
890-3186-4	FS07A	Solid	10/07/22 10:45	10/07/22 13:35

	Xe	Xenco	P. B. C.	EL	land, TX (43 . Paso, TX ()	Midland, TX (432) 704-5440, San Antonio. TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	i Antonio, 1X (∠1 ubbock, TX (806)	0) 509-3334) 794-1296				
	114	a the same show		Ho	- Paso, 1A (obbs, NM (5	ец raso, тА (это) 300-9443, силисса, тА (око) / 94-1250 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	nsbad, NM (575)) 988-3199		www	www.xenco.com	Page of 1
Project Manager: Ka	Kalei Jennings			Bill to: (if different)		Kalei Jennings				۷	Con	ments
	Ensolum, LLC			Company Name:		Ensolum, LLC			Prograr	n: UST/PST 🗌	PRP Brownfiel	Program: UST/PST 🔲 PRP 🗌 Brownfields 🗍 RRC 🔲 Superfund 🗌
	601 N Marienfeld St Suite 400	d St Suite 40	0	Address:		601 N Marienfeld St Suite 400	d St Suite 400		State of	State of Project:	ļ]
e ZIP:	Midland, TX 79701	01		City, State ZIP:		Midland, TX 79701	701		Reportir		Reporting: Level II CLevel III PST/UST TRRP	
			Ema	Email: kjennings@ensolum.com	ensolum.	com			Delivera	Deliverables: EDD	ADaPT] Other:
Project Name:	Federa	Federal Com 9	1	Turn Around				ANALYSIS	REQUEST			Preservative Codes
Project Number:	03D2	03D2024073	Routine	e 🗌 Rush	Pres. Code						Nor	None: NO DI Water: H ₂ O
Project Location:			Due Date:	3:							Coc	2
Sampler's Name:	Conne	Conner Shore	TAT starts	TAT starts the day received by	₽ y					-	HCI	HCL: HC HNO3: HN
PO#			the lab, if	the lab, if received by 4:30pm		_					H ₂ S	H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	ank: Yes No	No Wet Ice:	KYes No	nete	.0)					H ₃ F	H ₃ PO ₄ : HP
Samples Received Intact:	1		ĝ	रे	~	300					Nat	NaHSO4: NABIS
Cooler Custody Seals:	Yes No	NN Correc	Correction Factor:	10.0	Pa	PA:				ALL THE BALL BALL	Na ₂	Na2S2O3: NaSO3
Sample Custody Seals:	Yes No	N/A Tempe	Temperature Reading:	+)	- 	890-3186 C	Chain of Custouy	IV	Zn	Zn Acetate+NaOH: Zn
i Olai Vuitairiers.				S		(801	. 100					
Sample Identification		Matrix Sampled	pled Sampled	d Depth Comp	mp Cont	CHL(TPH BTE)						Sample Comments
FS10A		S 10.07.22	.22 1020	2' G		××××	Ê					
FS05A		S 10.07.23	.23 1025	1 ⁻ G	<u>→</u>	××	×					
FS08A		S 10.07.24	.24 1035	1.5 ⁻ G		××	×					Incident Number
FS07A		S 10.07.25	.25 1045	1.5' G		××	×					NAPP2218848721
		Jak -										
	10.	1										
R												
())												
Total 200.7 / 6010	200.8 / 6020:	20:	BRCRA 1	13PPM Texas 11	101	Sh As Ba Be B Cd Ca Cr Co Cu Fi	B Cd Ca Cr	0	Mo Ni Se Aa Ti U	K Se	Þ	\g SiO ₂ Na Sr TI Sn U V Zn Ha: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 conditionation of the second	ument and relinqui	shment of samp	es constitutes a va	I OLF / OF LF OOTO, ONOTON	from client co	mpany to Eurofin	3 Xenco, Its amilia	es and subcontra	ictors. It assigns	standard terms an	d 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 cliemr 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.	vill be liable only fo Im charge of \$85.0	r the cost of sam will be applied	ples and shall not a to each project and	a charge of \$5 for e	sibility for an each sample	y losses or expension submitted to Europ	ins Xenco, but no	e client if such los t analyzed. These	terms will be enfo	orced unless previo	usly negotiated.	
Relinguished by: (Signature)	Signature)	D Re	Received by: (Signature)	nature)		Date/Time	Relinqu	Relinquished by: (Si	ignature)	Received	Received by: (Signature)	Date/Time
		lie	MA		10.	7.2215	бі О					
			KX				4					

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Chain of Custody Jston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3186 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-3186-1 SDG Number: 03D2024073

List Source: Eurofins Carlsbad

Job Number: 890-3186-1 SDG Number: 03D2024073

List Source: Eurofins Midland

List Creation: 10/10/22 08:41 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3186 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Received by OCD: 11/15/2022 8:28:18 PM

LINKS

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Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-20574-1

Client Project/Site: Federal COM 9

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Josh Adams

VRAMER

Authorized for release by: 10/24/2022 3:59:51 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.

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	Definitions/Glossary	
Client: Ensolum	າ	Job ID: 880-20574-1
Project/Site: Fe	deral COM 9	
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	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
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 PQL	Positive / Present	
PRES	Practical Quantitation Limit Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD		
TEF	Relative Percent Difference, a measure of the relative difference between two points	
TEQ	Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)	
	TAVIENT EATINGIANT (ITADIENT O ITATIO)	

Eurofins Midland

.

Job ID: 880-20574-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-20574-1

Receipt

The samples were received on 10/20/2022 12:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS05B (880-20574-1) and FS07B (880-20574-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-20550-A-2-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS05B (880-20574-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-37355 and analytical batch 880-37359 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-37355/2-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-37421 and analytical batch 880-37493 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: FS05B (880-20574-1), FS07B (880-20574-2), (880-20574-A-1-C MS) and (880-20574-A-1-D MSD).

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

Job ID: 880-20574-1

Client: Ensolum Project/Site: Federal COM 9

Client Sample ID: FS05B

Date Collected: 10/18/22 14:21 Date Received: 10/20/22 12:24

Sample Depth: 1.25

Lab Sample ID: 880-20574-1

Matrix: Solid

5

Method: SW846 8021B - Volatile Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200	mg/Kg		10/21/22 11:55	10/21/22 14:28	
Toluene	<0.00200		0.00200	mg/Kg		10/21/22 11:55	10/21/22 14:28	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/22 11:55	10/21/22 14:28	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/21/22 11:55	10/21/22 14:28	
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/22 11:55	10/21/22 14:28	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/21/22 11:55	10/21/22 14:28	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	37	S1-	70 - 130			10/21/22 11:55	10/21/22 14:28	
1,4-Difluorobenzene (Surr)	86		70 - 130			10/21/22 11:55	10/21/22 14:28	
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/24/22 15:29	
Method: SW846 8015 NM - Diese								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			10/21/22 10:56	
Method: SW846 8015B NM - Dies			(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/20/22 15:00	10/20/22 20:02	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/20/22 15:00	10/20/22 20:02	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/22 15:00	10/20/22 20:02	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	86		70 - 130			10/20/22 15:00	10/20/22 20:02	
o-Terphenyl	98		70 - 130			10/20/22 15:00	10/20/22 20:02	
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	74.7	F1	5.04	mg/Kg			10/22/22 12:46	
lient Sample ID: FS07B						Lab Sam	ple ID: 880-2	0574-
ate Collected: 10/18/22 14:32							-	ix: Soli
ate Received: 10/20/22 12:24								
ample Depth: 1.75								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		10/21/22 11:55	10/21/22 14:48	
Toluene	<0.00199		0.00199	mg/Kg		10/21/22 11:55	10/21/22 14:48	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/21/22 11:55	10/21/22 14:48	
m-Xylene & p-Xylene	<0.00398		0.00398	mg/Kg		10/21/22 11:55	10/21/22 14:48	

o-Xylene <0.00199 U 0.00199 10/21/22 11:55 10/21/22 14:48 mg/Kg 1 Xylenes, Total <0.00398 U 0.00398 mg/Kg 10/21/22 11:55 10/21/22 14:48 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 115 70 - 130 10/21/22 11:55 10/21/22 14:48 1

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Client Sample Results

Job ID: 880-20574-1

Client: Ensolum
Project/Site: Federal COM 9

Client Sample ID: FS07B

Date Collected: 10/18/22 14:32

Lab Sample ID: 880-20574-2

Matrix: Solid

5

Date Received: 10/20/22 12:24 Sample Depth: 1.75

I	
I	Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)
I	method. Ortoto 002 rB - Volatile Organic Compounds (00) (Continued)

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130			10/21/22 11:55	10/21/22 14:48	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/24/22 15:29	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/21/22 10:56	1
Method: SW846 8015B NM - Dies	el Range Orga	nice (DRO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		10/20/22 15:00	10/20/22 20:23	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/20/22 15:00	10/20/22 20:23	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/20/22 15:00	10/20/22 20:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			10/20/22 15:00	10/20/22 20:23	1
o-Terphenyl	103		70 - 130			10/20/22 15:00	10/20/22 20:23	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3		5.00	mg/Kg			10/22/22 13:01	

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Released to Imaging: 12/14/2022 10:39:19 AM

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) DFBZ1 BFB1 Lab Sample ID Client Sample ID (70-130) (70-130) 880-20550-A-2-F MS Matrix Spike 98 89 880-20550-A-2-G MSD Matrix Spike Duplicate 90 88 880-20574-1 FS05B 37 S1-86 880-20574-2 FS07B 93 115 LCS 880-37402/1-A Lab Control Sample 86 92 Lab Control Sample Dup LCSD 880-37402/2-A 92 91 MB 880-37402/5-A Method Blank 105 86 Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
51-A-11-C MS	Matrix Spike	77	78	
551-A-11-D MSD	Matrix Spike Duplicate	72	72	
574-1	FS05B	86	98	
74-2	FS07B	91	103	
0-37355/2-A	Lab Control Sample	114	133 S1+	
880-37355/3-A	Lab Control Sample Dup	99	111	
30-37355/1-A	Method Blank	119	134 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-20574-1

Prep Type: Total/NA

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Prep Type: Total/NA

Eurofins Midland

QC Sample Results

Client: Ensolum Project/Site: Federal COM 9

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-37402/5-A Matrix: Solid								C	Client Sa	mple ID: Metho Prep Type: 1	
Analysis Batch: 37452										Prep Batch	
	МВ	мв									
Analyte	Result	Qualifier	RL		Unit		D	Pre	epared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/K	g		0/20	/22 11:40	10/21/22 11:18	
Toluene	<0.00200	U	0.00200		mg/K	g	1	0/20	/22 11:40	10/21/22 11:18	
Ethylbenzene	<0.00200	U	0.00200		mg/K	g	1	0/20	/22 11:40	10/21/22 11:18	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g	1	0/20	/22 11:40	10/21/22 11:18	
o-Xylene	<0.00200	U	0.00200		mg/K	g	1	0/20	/22 11:40	10/21/22 11:18	
Xylenes, Total	<0.00400	U	0.00400		mg/K	g	1	0/20	/22 11:40	10/21/22 11:18	
	МВ	МВ									
Surrogate	%Recovery	Qualifier	Limits					Pre	epared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130				1	0/20	/22 11:40	10/21/22 11:18	
1,4-Difluorobenzene (Surr)	86		70 - 130				1	0/20	/22 11:40	10/21/22 11:18	
Lab Sample ID: LCS 880-37402/1-A							Clie	ent s	Sample I	D: Lab Control	Sample
Matrix: Solid										Prep Type: 1	
Analysis Batch: 37452										Prep Batch	n: 3740
-			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit	I	D	%Rec	Limits	
Benzene			0.100	0.09837		mg/Kg			98	70 - 130	
Toluene			0.100	0.09917		mg/Kg			99	70 - 130	
Ethylbenzene			0.100	0.09313		mg/Kg			93	70 - 130	
m-Xylene & p-Xylene			0.200	0.1925		mg/Kg			96	70 - 130	
o-Xylene			0.100	0.09576		mg/Kg			96	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-37402/2-A

Matrix: Solid

Analysis Batch: 37452							Prep Batch: 3		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	11	35
Toluene	0.100	0.1114		mg/Kg		111	70 - 130	12	35
Ethylbenzene	0.100	0.1025		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		108	70 - 130	11	35
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130	12	35

LCSD	LCSD	
%Recovery	Qualifier	Limits
92		70 _ 130
91		70 - 130
	%Recovery 92	

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: Federal COM 9

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

Lab Sample ID: MB 880-37355/	1-A									Client Sa	mple ID: I	Method	l Blank
Matrix: Solid											-		otal/NA
Analysis Batch: 37359													37355
	Ν	ИВ МВ	в										
Analyte	Res	ult Qu	ualifier	RL		Uni		D	P	repared	Analyz	ed	Dil Fac
Gasoline Range Organics	<50	0.0 U		50.0		mg/	≺g	_	10/2	0/22 08:21	10/20/22	11:03	1
(GRO)-C6-C10													
Diesel Range Organics (Over	<50	0.0 U		50.0		mg/	≺g		10/2	0/22 08:21	10/20/22	11:03	1
C10-C28) Oll Range Organics (Over C28-C36)	~50).0 U		50.0		mal	(~		10/2	0/22 08:21	10/20/22	11.02	1
On Mange Organics (Over 626-630)	-50	J.0 U		50.0		mg/	Ny .		10/2	5/22 00.21	10/20/22	11.05	1
	Л	ИВ МІ	в										
Surrogate	%Recove	ery Qu	ualifier	Limits					P	repared	Analyz	ed	Dil Fac
1-Chlorooctane	1	19		70 - 130					10/2	0/22 08:21	10/20/22	11:03	1
o-Terphenyl	1	34 S1	1+	70 - 130					10/2	0/22 08:21	10/20/22	11:03	1
-													
Lab Sample ID: LCS 880-37355	6/2-A							С	lient	Sample I	D: Lab Co		
Matrix: Solid													otal/NA
Analysis Batch: 37359				0.11								Batch:	37355
Amelia				Spike		LCS	1114		-	0/ D	%Rec		
Analyte				Added		Qualifier	Unit			%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	803.0		mg/Kg			80	70 - 130		
Diesel Range Organics (Over				1000	1045		mg/Kg			105	70 - 130		
C10-C28)							5 5						
		~~											
,	LCS L			Limito									
Surrogate	%Recovery	.CS Qualifie	er	Limits									
Surrogate 1-Chlorooctane	%Recovery 114	Qualifie	er	70 - 130									
Surrogate	%Recovery	Qualifie	er										
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 4 114 133 S	Qualifie	er	70 - 130			CI	ient	Sam	ple ID: La	ab Contro	l Samp	le Dup
Surrogate 1-Chlorooctane	%Recovery 4 114 133 S	Qualifie	er	70 - 130			CI	ient	Sam	ple ID: La	ab Contro Prep T		
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-373 Matrix: Solid	%Recovery 4 114 133 S	Qualifie	er	70 - 130			CI	ient	Sam	ple ID: La	Prep T	ype: To	le Dup otal/NA : 37355
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738	%Recovery 4 114 133 S	Qualifie	er	70 - 130	LCSD	LCSD	СІ	ient	Sam	ple ID: La	Prep T	ype: To	otal/NA
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-373 Matrix: Solid	%Recovery 4 114 133 S	Qualifie	er	70 - 130 70 - 130		LCSD Qualifier	CI Unit	ient	Sam	ple ID: La %Rec	Prep T Prep	ype: To	otal/NA : 37355
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359	%Recovery 4 114 133 S	Qualifie	er	70 - 130 70 - 130 Spike				ient			Prep T Prep %Rec	ype: To Batch:	otal/NA 37355 RPD
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte	%Recovery 4 114 133 S	Qualifie	er	70 - 130 70 - 130 Spike Added	Result		Unit	ient		%Rec	Prep T Prep %Rec Limits	ype: To Batch: RPD	tal/NA 37355 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 4 114 133 S	Qualifie	er	70 - 130 70 - 130 Spike Added	Result		Unit	ient		%Rec	Prep T Prep %Rec Limits	ype: To Batch: RPD	tal/NA 37355 RPD Limit
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 4 114 133 S	Qualifie	er	70 - 130 70 - 130 Spike Added 1000	Result 908.2		<mark>Unit</mark> mg/Kg	ient		%Rec	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 12	5000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 4 114 133 S	Qualifie	er	70 - 130 70 - 130 Spike Added 1000	Result 908.2		<mark>Unit</mark> mg/Kg	ient		%Rec	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 12	5000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 4 114 133 S 55/3-A <i>LCSD</i> L	Qualifie		70 - 130 70 - 130 Spike Added 1000	Result 908.2		<mark>Unit</mark> mg/Kg	ient		%Rec	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 12	5000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-373 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 4 114 133 S 55/3-A <i>LCSD</i> L	Qualifie		70 - 130 70 - 130 Spike Added 1000	Result 908.2		<mark>Unit</mark> mg/Kg	ient		%Rec	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 12	5000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3733 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	%Recovery G 114 133 S 55/3-A LCSD L %Recovery G	Qualifie		70 - 130 70 - 130 Spike Added 1000 1000	Result 908.2		<mark>Unit</mark> mg/Kg	ient		%Rec	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 12	5000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3733 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery G 114 133 S 55/3-A 55/3-A 4 %Recovery 99 111	Qualifie 31+ CSD Qualifie		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 908.2		<mark>Unit</mark> mg/Kg	ient		%Rec	Prep T Prep %Rec Limits 70 - 130	ype: To Batch: RPD 12	5000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Iou	%Recovery G 114 133 S 133 S S 55/3-A S S %Recovery G G %Recovery G G 99 111 G 111 Chromatog G	Qualifie 31+ CSD Qualifie		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 908.2		<mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec 91 90	Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 12 15	20000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Iou Lab Sample ID: MB 880-37421/	%Recovery G 114 133 S 133 S S 55/3-A S S %Recovery G G %Recovery G G 99 111 G 111 Chromatog G	Qualifie 31+ CSD Qualifie		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 908.2		<mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec 91 90	Prep T Prep %Rec Limits 70 - 130 70 - 130	Ype: To Batch: 12 15 Method	5tal/NA 37355 RPD <u>Limit</u> 20 20 20 I Blank
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Lab Sample ID: MB 880-37421/ Matrix: Solid	%Recovery G 114 133 S 133 S S 55/3-A S S %Recovery G G %Recovery G G 99 111 G 111 Chromatog G	Qualifie 31+ CSD Qualifie		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 908.2		<mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec 91 90	Prep T Prep %Rec Limits 70 - 130 70 - 130	Ype: To Batch: 12 15 Method	20000000000000000000000000000000000000
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Iou Lab Sample ID: MB 880-37421/	%Recovery G 114 133 S 55/3-A 55/3-A 55/3-A 55/3-A %Recovery G 40 100 %Recovery 99 111 111 110 111 111 111 Chromator 1-A 1-A 1-A	CSD Qualifie	er	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 908.2		<mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec 91 90	Prep T Prep %Rec Limits 70 - 130 70 - 130	Ype: To Batch: 12 15 Method	5tal/NA 37355 RPD <u>Limit</u> 20 20 20 I Blank
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3738 Matrix: Solid Analysis Batch: 37359 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Iou Lab Sample ID: MB 880-37421/ Matrix: Solid	%Recovery G 114 133 S 55/3-A 55/3-A 55/3-A %Recovery G 4 %Recovery G 111 %Recovery G 111 111 111 111 A A A	CSD Qualifie Qualifie grap	er	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 908.2		Unit mg/Kg mg/Kg	D	<u>D</u>	%Rec 91 90	Prep T Prep %Rec Limits 70 - 130 70 - 130	Ype: To Batch: RPD 12 15 Method Type: S	5tal/NA 37355 RPD <u>Limit</u> 20 20 20 I Blank

Job ID: 880-20574-1

Job ID: 880-20574-1

Client: Ensolum Project/Site: Federal COM 9

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880)-37421/2-A						Client	Sampl	e ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 37493											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	253.2		mg/Kg		101	90 - 110		
Lab Sample ID: LCSD 8	80-37421/3-4					Clier	nt Sam		Lab Contro	Sampl	س م
Matrix: Solid	00-01-42 1/0-A					Unici	it ouii	ipic ib.		Type: So	
Analysis Batch: 37493									Tieb	Type. O	orubi
Analysis Datch. 57455			Spike		LCSD				%Rec		RPI
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chloride			250	254.0	quamor	mg/Kg		102	90 - 110	0	2
-						0 0					
Lab Sample ID: 880-205	74-1 MS								Client Sam	ple ID: F	-S05
Matrix: Solid									Prep	Type: So	olubl
Analysis Batch: 37493											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	74.7	F1	252	253.0	F1	mg/Kg		71	90 - 110		
Lab Sample ID: 880-205	74-1 MSD								Client Sam	ple ID: F	-S05I
Matrix: Solid										Type: So	
Analysis Batch: 37493											
•	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi

Eurofins Midland

Client Sample ID

FS05B

FS07B

FS05B

FS07B

FS05B

FS07B

FS05B

FS07B

Method Blank

Lab Control Sample

Client Sample ID

Method Blank

Lab Control Sample

Client Sample ID

Client Sample ID

Method Blank

Lab Control Sample

Lab Control Sample Dup

Lab Control Sample Dup

Lab Control Sample Dup

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Client: Ensolum Project/Site: Federal COM 9

GC VOA

880-20574-1

880-20574-2

MB 880-37402/5-A

LCS 880-37402/1-A

LCSD 880-37402/2-A

Lab Sample ID

880-20574-1

880-20574-2

MB 880-37402/5-A

LCS 880-37402/1-A

LCSD 880-37402/2-A

Lab Sample ID

880-20574-1

880-20574-2

880-20574-1

880-20574-2

MB 880-37355/1-A

LCS 880-37355/2-A

GC Semi VOA

Prep Batch: 37355 Lab Sample ID

Analysis Batch: 37696

Analysis Batch: 37452

Prep Batch: 37402 Lab Sample ID

Job ID: 880-20574-1

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			3
Matrix Solid	Method	Prep Batch	4
Solid	5035		5
Solid	5035		
Solid	5035		6
Solid	5035		7
Matrix	Method	Prep Batch	8
Solid	8021B	37402	
Solid	8021B	37402	9
Solid	8021B	37402	
Solid	8021B	37402	10
Solid	8021B	37402	
			11
Matrix	Method	Prep Batch	10
Solid	Total BTEX		
Solid	Total BTEX		13
			14
Matrix	Method	Prep Batch	
Solid	8015NM Prep		
Solid	8015NM Prep		
Solid	8015NM Prep		
Solid Solid	8015NM Prep		
30110	8015NM Prep		

LCSD 880-37355/3-A Analysis Batch: 37359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20574-1	FS05B	Total/NA	Solid	8015B NM	37355
880-20574-2	FS07B	Total/NA	Solid	8015B NM	37355
MB 880-37355/1-A	Method Blank	Total/NA	Solid	8015B NM	37355
LCS 880-37355/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	37355
LCSD 880-37355/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	37355

Analysis Batch: 37477

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-20574-1	FS05B	Total/NA	Solid	8015 NM	
880-20574-2	FS07B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 37421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-20574-1	FS05B	Soluble	Solid	DI Leach	
880-20574-2	FS07B	Soluble	Solid	DI Leach	
MB 880-37421/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-37421/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-37421/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-20574-1 MS	FS05B	Soluble	Solid	DI Leach	

Eurofins Midland

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QC Association Summary

Client: Ensolum Project/Site: Federal COM 9

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HPLC/IC (Continued) Leach Batch: 37421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-20574-1 MSD	FS05B	Soluble	Solid	DI Leach	
nalysis Batch: 37493					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-20574-1	FS05B	Soluble	Solid	300.0	37421
80-20574-2	FS07B	Soluble	Solid	300.0	37421
1B 880-37421/1-A	Method Blank	Soluble	Solid	300.0	37421
CS 880-37421/2-A	Lab Control Sample	Soluble	Solid	300.0	37421
CSD 880-37421/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	37421
80-20574-1 MS	FS05B	Soluble	Solid	300.0	37421
80-20574-1 MSD	FS05B	Soluble	Solid	300.0	37421

Eurofins Midland

Job ID: 880-20574-1

Matrix: Solid

Lab Sample ID: 880-20574-1

Client: Ensolum Project/Site: Federal COM 9

Client Sample ID: FS05B Date Collected: 10/18/22 14:21

Date Received: 10/20/22 12:24

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			37402	MNR	EET MID	10/21/22 11:55
Total/NA	Analysis	8021B		1	37452	MNR	EET MID	10/21/22 14:28
Total/NA	Analysis	Total BTEX		1	37696	SM	EET MID	10/24/22 15:29
Total/NA	Analysis	8015 NM		1	37477	SM	EET MID	10/21/22 10:56
Total/NA	Prep	8015NM Prep			37355	DM	EET MID	10/20/22 15:00
Total/NA	Analysis	8015B NM		1	37359	SM	EET MID	10/20/22 20:02
Soluble	Leach	DI Leach			37421	KS	EET MID	10/20/22 15:21
Soluble	Analysis	300.0		1	37493	SMC	EET MID	10/22/22 12:46

Client Sample ID: FS07B Date Collected: 10/18/22 14:32

Date Received: 10/20/22 12:24

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			37402	MNR	EET MID	10/21/22 11:55
Total/NA	Analysis	8021B		1	37452	MNR	EET MID	10/21/22 14:48
Total/NA	Analysis	Total BTEX		1	37696	SM	EET MID	10/24/22 15:29
Total/NA	Analysis	8015 NM		1	37477	SM	EET MID	10/21/22 10:56
Total/NA	Prep	8015NM Prep			37355	DM	EET MID	10/20/22 15:00
Total/NA	Analysis	8015B NM		1	37359	SM	EET MID	10/20/22 20:23
Soluble	Leach	DI Leach			37421	KS	EET MID	10/20/22 15:21
Soluble	Analysis	300.0		1	37493	SMC	EET MID	10/22/22 13:01

Laboratory References:

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

Lab Sample ID: 880-20574-2

Matrix: Solid

11 12 13 Accreditation/Certification Summary

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	AP T104704400-22-24	
The following analytes	are included in this report. bu	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
the agency does not of	fer certification.	Motrix	Anglyto	
the agency does not of Analysis Method		Matrix	Analyte	
the agency does not of	fer certification.	Matrix Solid	Analyte Total TPH	

10

Job ID: 880-20574-1

Eurofins Midland

Method Summary

Client: Ensolum Project/Site: Federal COM 9

lah ID: 000 00574 1	
Job ID: 880-20574-1	
Laboratory	
EET MID	
EET MID	
EET MID	5
EET MID	J
EET MID	
	8
	9

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: Federal COM 9 Job ID: 880-20574-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-20574-1	FS05B	Solid	10/18/22 14:21	10/20/22 12:24	1.25
880-20574-2	FS07B	Solid	10/18/22 14:32	10/20/22 12:24	1.75

Eurofins Midland 10/24/2022

Revised Date 08/25/2020 Rev 2020.2	71						
		5 4	NPE				5 6
		2	eelocto	K		la Green	Pladla
Date/Time	e) Received by (Signature)	Relinquished by: (Signature)	Date/Time	ignatur e)	Received by (Signature)	Relinquished by: (Signature)	Relinquis
	yost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control he 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.	ncurred by the client if such losses are o Kenco, but not analyzed. These terms wi	r any losses or expenses ir ple submitted to Eurofins X	ot assume any responsibility fo nd a charge of \$5 for each sam		of service. Eurofins Aenco Will be liable only for the of Eurofins Xenco. A minimum charge of \$85.00 will	of Eurofins Xend
	assigns standard terms and conditions	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	it company to Eurofins Xen	valid purchase order from clier	ishment of samples constitutes a	re of this document and relinqui	Notice Signatu
7470 / 7471	Se Ag TI U Hg 1631/2451/7470	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag		TCLP / SPLP 6010 8RCRA		Circle Method(s) and Metal(s) to be analyzed	Circle Metho
TI Sn U V Zn	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti	Cd Ca Cr Co Cu Fe Pb M	Sb As Ba Be B	13PPM Texas 11 Al)20: 8RCRA	200.7 / 6010 200.8 / 6020:	Total 20
stody	080-20574 Chain of Custody						
					/		
Incident Number			λ				
202				21.75 0 1	Sc 10-18-22 1432	ß	FSOT
	<u>د</u>		XXX	1.25 C 1	sc 10-18-22 1421	FSOSB	FSC
Sample Comments	Sa		TP BT CH	ed Depth Grab/ # of Comp Cont	Matrix Date Time Sampled Sampled	Sample Identification	Samp
NaOH+Ascorbic Acid SAPC	NaOH+A		E		Corrected Temperature	Iers:	Lotal Containers:
Zn Acetate+NaOH Zn	Zn Aceta		K	9. V.V.V.	N/A/ Temperature Reading.	ody Seals. Yes No	Sample Custody Seals.
NaSO3	Na ₂ S ₂ O ₃ NaSO ₃			- 30 Pa	VA Correction Factor		Cooler Custody Seals.
NABIS	NaHSO4 NABIS		02	H	Thermometer	Ř.	Samples Received Intact:
	H,PO, HP			Yes No	ank. Yes No Wet Ice	RECEIPT Jemp Blank.	SAMPLE RECEIPT
NaOH Na			300	the lab, if received by 4 30pm			PO #
⊻			>	VHU CI a		I JUNIE	Project Location
DI Water H ₂ O	None NO		0;	4	X Routine	ber 	Project Number
Preservative Codes		ANALYSIS REQUEST		Turn Around		. FEDERAL COM 9	Project Name.
Other:	Deliverables EDD 🕅 ADaPT 🗆	KJENNINGS@ENSIWM D	MUUM; KJEN	Email JADAM DENJUUM;	203	917.663-	Phone
	Reporting Level II Thevel III PST/UST TRRP Level IV			City, State ZIP	701		City, State ZIP
	State of Project: NM	S		Address	d St Suite 400	601 N Marienfeld St Suite 400	Address
RRC Superfund	Program: UST/PST PRP Brownfields RRC Superfund		ENGUN	Company Name		me Ensolum, LLC	Company Name
	ŝ	ININGS	KALEI JENNINGS	Bill to. (if different)	MDHIMS	TOLH	Project Manager
of	www.xenco.com Page	ad NM (575) 988-3199	Hobbs NM (575) 392-7550 Cansbad NM (575) 988-3199	אוויו פממסרן			
,		rck, TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, T	Xenco	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
27-28	Work Order No: 2	ıs, TX (214) 902-0300 onio TX (210) 509-3334	Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 Midland TX (432) 704-5440, San Antonio TX (210) 509-3334	Houston T Midland TX (Environment Testing		¢.

the curofins

5 12 13

Chain of Custody

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

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 20574 List Number: 1 Creator: Rodriguez, Leticia

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

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Job Number: 880-20574-1

List Source: Eurofins Midland



APPENDIX E

NMOCD Notifications

Released to Imaging: 12/14/2022 10:39:19 AM

Josh Adams

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Tuesday, September 20, 2022 9:27 AM
То:	Kalei Jennings
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	FW: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

[**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@emnrd.nm.gov>
Sent: Tuesday, September 20, 2022 8:02 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

From: Kalei Jennings <<u>kjennings@ensolum.com</u>>
Sent: Monday, September 19, 2022 8:28 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Subject: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

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

All,

COP plans to complete final sampling activities at the following sites the week of September 19, 2022.

Tuesday (9/20/2022)

- Federal 9 Com/ NAPP2218848721
- Windward 4H Flowline/NAPP2218850477
- Windward 2H CTB Flare Fire/NAPP2222347897

Wednesday (9/21/2022)

- -Federal 9 Com/ NAPP2218848721
- Windward 4H Flowline/NAPP2218850477
- Windward 2H CTB Flare Fire/NAPP2222347897

Thursday (9/22/2022)

• Corvo Federal 4/ NAPP2217430297

Thank you,



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

.

Josh Adams

From:	Beauvais, Charles R <charles.r.beauvais@conocophillips.com></charles.r.beauvais@conocophillips.com>
Sent:	Wednesday, September 28, 2022 11:08 AM
То:	Kalei Jennings
Subject:	FW: [EXTERNAL] COG- Extension Request- Federal 9 Com 001 (Incident Number NAPP2218848721)

[**EXTERNAL EMAIL**]

FYI

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, September 28, 2022 11:05 AM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD
<Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: FW: [EXTERNAL] COG- Extension Request- Federal 9 Com 001 (Incident Number NAPP2218848721)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Charles

OCD approves your request for a 90-day extension to December 31, 2022 to submit a closure report. 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 <<u>OCD.Enviro@emnrd.nm.gov</u>>
Sent: Wednesday, September 28, 2022 9:50 AM
To: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD
<<u>Jocelyn.Harimon@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Hamlet, Robert,
EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>;
Subject: Fw: [EXTERNAL] COG- Extension Request- Federal 9 Com 001 (Incident Number NAPP2218848721)

From: Beauvais, Charles R <<u>Charles.R.Beauvais@conocophillips.com</u>>
Sent: Wednesday, September 28, 2022 9:49 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; EMNRD-OCD-District1spills <<u>EMNRD-OCD-District1spills@state.nm.us</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Cc: Fejervary Morena, Gustavo A <<u>G.Fejervary@conocophillips.com</u>>; Esparza, Brittany
<<u>Brittany.Esparza@conocophillips.com</u>>
Subject: [EXTERNAL] COG- Extension Request- Federal 9 Com 001 (Incident Number NAPP2218848721)

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

To Whom It May Concern,

COG Operating, LLC (COG) is requesting an extension for the current deadline of October 2, 2022, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Federal 9 Com 001 (Incident Number NAPP2218848721). The release was discovered on July 4, 2022, and initial site assessment activities have been completed. The most recent laboratory analytical results indicate additional excavation activities are required to remove residual impacted soil. In order to complete additional remediation activities and submit a remediation work plan or closure report, COG requests a 90-day extension of this deadline until December 31, 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.



Josh Adams

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@emnrd.nm.gov></jennifer.nobui@emnrd.nm.gov>
Sent:	Thursday, September 29, 2022 2:41 PM
То:	Kalei Jennings
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	FW: [EXTERNAL] COP- Sampling Notification (10/3/22-10/7/22)

[**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@emnrd.nm.gov>
Sent: Thursday, September 29, 2022 1:57 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] COP- Sampling Notification (10/3/22-10/7/22)

From: Kalei Jennings <<u>kjennings@ensolum.com</u>>
Sent: Thursday, September 29, 2022 11:14 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Subject: [EXTERNAL] COP- Sampling Notification (10/3/22-10/7/22)

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

All,

ConocoPhillips (COP) plans to complete final sampling activities at the following sites the week of October 3, 2022.

Friday (10/7/2022)

• Federal 9 Com 001/ NAPP2218848721

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Thank you,

Kalei Jennings

Senior Scientist

817-683-2503

Ensolum, LLC

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:	OGRID:			
COG OPERATING LLC	229137			
600 W Illinois Ave	Action Number:			
Midland, TX 79701	159179			
	Action Type:			
	[C-141] Release Corrective Action (C-141)			
CONDITIONS				

Created Condition By

jnobui Closure Report Approved. Page 150 of 150

CONDITIONS

Action 159179

Condition Date

12/14/2022

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