

July 18, 2023

New Mexico Oil Conservation Division

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

Re: Closure Request

Stratojet 31 State Com 008H

Incident Number NAPP2314235805

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 assessment, excavation, and soil sampling activities performed at the Stratojet 31 State Com 008H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2314235805.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 31, Township 20 South, Range 35 East, in Lea County, New Mexico (32.5249°, -103.5030°) and is associated with oil and gas exploration and production operations on private land managed by Merchant Livestock Company.

On April 19, 2023, internal corrosion on a check valve resulted in the release of approximately 0.22 barrels (bbls) of produced water into the surrounding pasture area. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 22, 2023. The release was assigned Incident Number NAPP2314235805.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess 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. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well

Stratojet 31 State Com 008H

323148103295801, located approximately 0.7 miles north of the Site. The groundwater well has a reported depth to groundwater of 65.29 feet bgs and total depth of 85 feet bgs. Ground surface elevation at the groundwater well location is 3,713 feet above mean sea level (amsl), which is 29 feet lower in elevation than the site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 1,846 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

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

SITE ASSESSMENT AND LABORATORY ANALYTICAL RESULTS

On May 22, 2023, Ensolum personnel were at the Site to evaluate the release based on information provided on the Form C-141 and visual observations. Seven assessment soil samples (SS01 through SS07) were collected within and around the visible release extent at a depth of approximately 0.5 feet bgs to assess surficial soils within the release as well as the lateral extent of the release. The 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 release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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



Stratojet 31 State Com 008H

Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the release extent, indicated all COC concentrations were compliant with most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for assessment soil samples SS05 through SS07, collected within the release extent, indicated chloride concentrations exceeded the Closure Criteria as well as reclamation requirement. Based on laboratory analytical results for soil samples SS05 through SS07, collected within the release extent, excavation activities appeared to be warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between June 23 and July 13, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining and laboratory analytical results for assessment soil samples SS05 through SS07. Excavation activities were performed via backhoe and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride. The excavation was completed at a depth of 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS10 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation samples FS01 through FS10 and SW01 through SW04 indicated all COC concentrations were compliant with the Closure Criteria and the reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 1,886 square feet in aerial extent. A total of approximately 280 cubic yards of impacted soil was removed during the excavation activities. The soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 19, 2023, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Closure Criteria and the reclamation requirement. Based on the laboratory analytical results, no further remediation was required.

COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2314235805. NMOCD notifications are included in Appendix D and the Final C-141 is included in Appendix E.



If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely, **Ensolum**, **LLC**

Ronni Hayes

Assistant Geologist

Daneil R. Moir, PG

Senior Managing Geologist

Appendices:

CC:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Jacob Laird, ConocoPhillips

Merchant Livestock Company

Appendix B Photographic Log

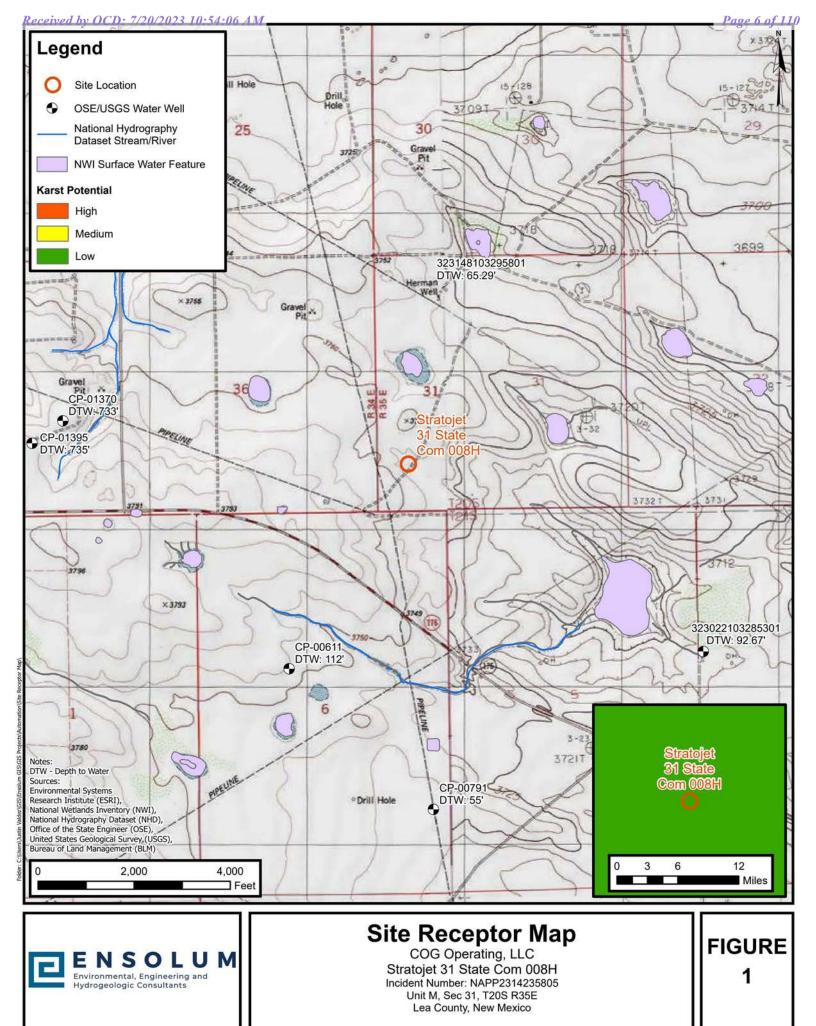
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Notifications

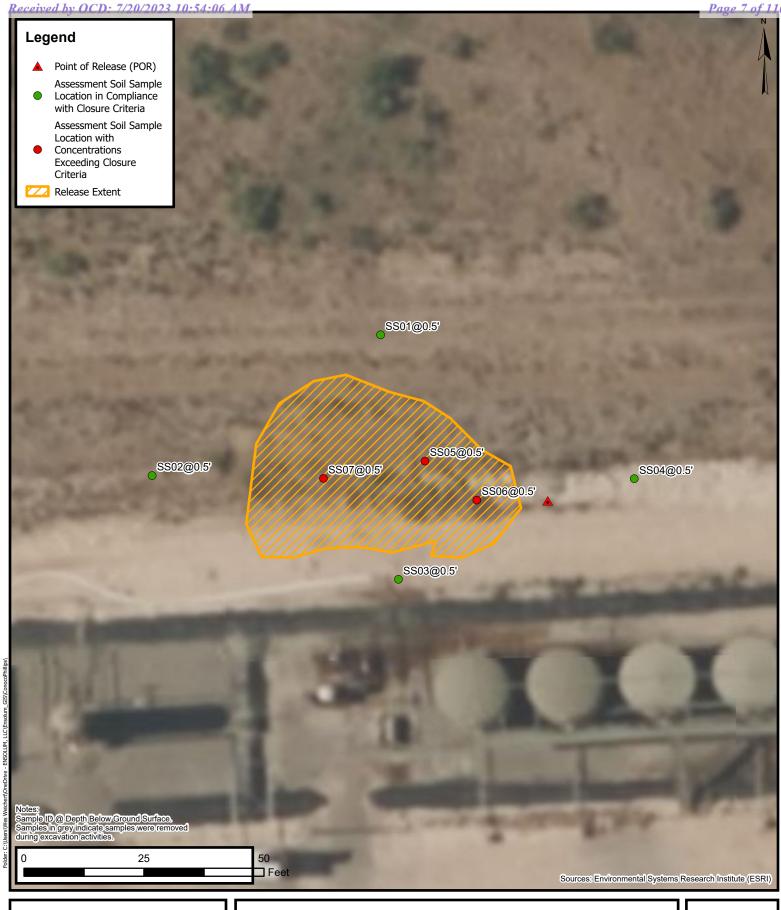
Appendix E Final C-141



FIGURES



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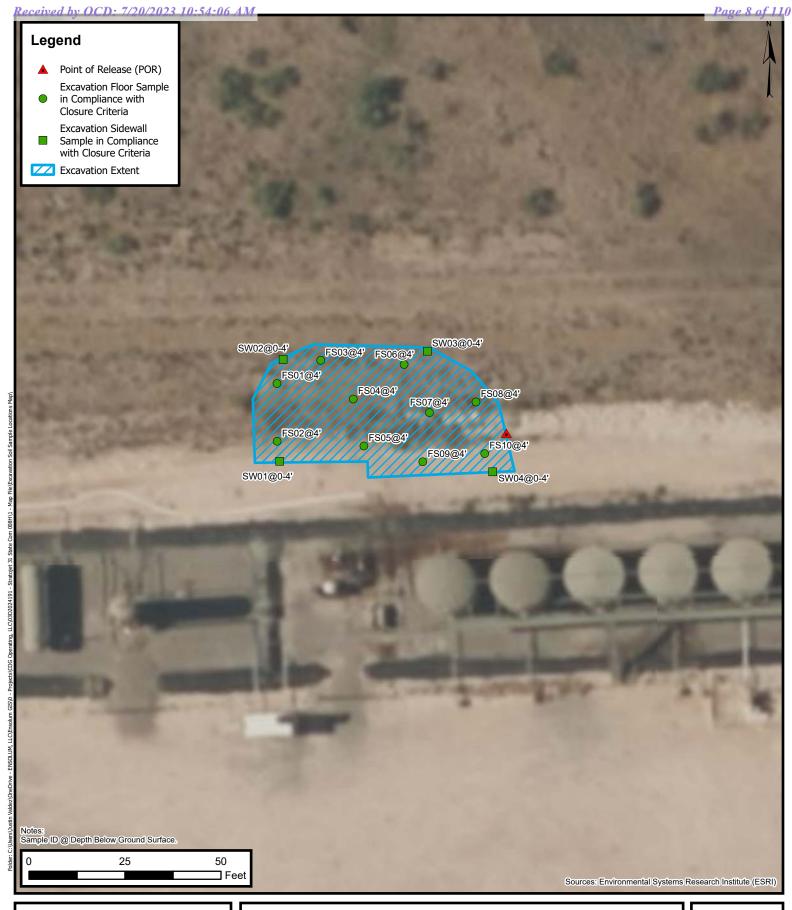




Assessment Soil Sample Locations

COG Operating, LLC Stratojet 31 State Com 008H Incident Number: NAPP2314235805 Unit M, Sec 31, T20S R35E Lea County, New Mexico FIGURE 2

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Excavation Soil Sample LocationsCOG Operating, LLC

COG Operating, LLC Stratojet 31 State Com 008H Incident Number: NAPP2314235805 Unit M, Sec 31, T20S R35E Lea County, New Mexico FIGURE 3



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Stratojet 31 State Com 008H COG Operating, LLC Lea County, New Mexico

<u>}</u>	Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000	
				Asse	ssment Soil San	nples					
SS01*	5/22/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	48.6	
SS02*	5/22/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	52.7	
SS03*	5/22/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	107	
SS04*	5/22/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	551	
SS05*	5/22/2023	0.5	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	15,400	
SS06*	5/22/2023	0.5	<0.00201	< 0.00402	<50.0	51.5	<50.0	51.5	51.5	15,700	
SS07*	5/22/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	11,100	
				Excava	tion Floor Soil S	amples					
FS01	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS02	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS03	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS04	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS05	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS06	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS07	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS08	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS09	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
FS10	07/13/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Stratojet 31 State Com 008H COG Operating, LLC Lea County, New Mexico

*	Eca county, non mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	10,000				
	Excavation Sidewall Soil Samples												
SW01*	6/26/2023	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	331			
SW02*	6/26/2023	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	290			
SW03*	6/26/2023	0-4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	314			
SW04*	6/23/2023	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	446			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



APPENDIX A

Referenced Well Records



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National Water Information System: Web Interface

USGS Water Resources	Data Category:	ata Category:			
oods water resources	Groundwater	~	United States	~ [GO

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Search Results -- 1 sites found

site_no list =

• 323148103295801

Minimum number of levels = 1

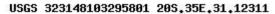
Save file of selected sites to local disk for future upload

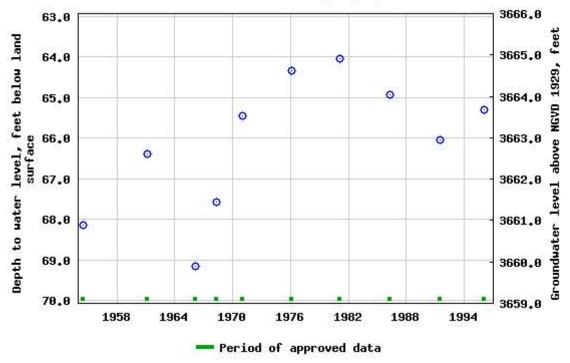
USGS 323148103295801 20S.35E.31.12311

Available data for this site	Groundwater:	Field measurements	~ [(GO
Lea County, New Mexico				
Hydrologic Unit Code 1307	0007			
Latitude 32°32'06", Longit	tude 103°30	0'03" NAD27		
Land-surface elevation 3,7	29.00 feet a	above NGVD29		
The depth of the well is 85	feet below	land surface.		
This well is completed in the	ne Other aq	uifers (N9999OTI	HER)	national aquifer.
This well is completed in the	ne Ogallala i	Formation (1210	GLL)	local aquifer.

Output formats

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





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2023-07-14 15:23:18 EDT

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USGS Water Resources

Data Category: Geographic Area:

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323148103295801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323148103295801 20S.35E.31.12311

Lea County, New Mexico
Latitude 32°32'06", Longitude 103°30'03" NAD27
Land-surface elevation 3,729.00 feet above NGVD29
The depth of the well is 85 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats								
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ab-separated data								
Graph of data								
Personal Personal	\neg							

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 measur
]
1954-06-25		D	62610		3660.85	NGVD29	Р	Z		
1954-06-25		D	62611		3662.41	NAVD88	Р	Z		
1954-06-25		D	72019	68.15			Р	Z		
1961-03-08		D	62610		3662.62	NGVD29	Р	Z		
1961-03-08		D	62611		3664.18	NAVD88	Р	Z		
1961-03-08		D	72019	66.38			Р	Z		
1966-03-02		D	62610		3659.84	NGVD29	Р	Z		
1966-03-02		D	62611		3661.40	NAVD88	Р	Z		
1966-03-02		D	72019	69.16			Р	Z		
1968-04-17		D	62610		3661.43	NGVD29	Р	Z		
1968-04-17		D	62611		3662.99	NAVD88	Р	Z		
1968-04-17		D	72019	67 . 57			Р	Z		
1971-01-26		D	62610		3663.55	NGVD29	1	Z		
1971-01-26		D	62611		3665.11	NAVD88	1	Z		
1971-01-26		D	72019	65.45			1	Z		
1976-02-18		D	62610		3664.67	NGVD29	1	Z		

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 (measure
1976-02-18		D	62611		3666.23	NAVD88	1	Z		
1976-02-18		D	72019	64.33			1	Z		
1981-02-18		D	62610		3664.97	NGVD29	1	Z		
1981-02-18		D	62611		3666.53	NAVD88	1	Z		
1981-02-18		D	72019	64.03			1	Z		
1986-04-09		D	62610		3664.07	NGVD29	1	Z		
1986-04-09		D	62611		3665.63	NAVD88	1	Z		
1986-04-09		D	72019	64.93			1	Z		
1991-07-03		D	62610		3662.96	NGVD29	1	Z		
1991-07-03		D	62611		3664.52	NAVD88	1	Z		
1991-07-03		D	72019	66.04			1	Z		
1996-02-02		D	62610		3663.71	NGVD29	1	S		
1996-02-02		D	62611		3665.27	NAVD88	1	S		
1996-02-02		D	72019	65.29			1	S		

Explanation

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
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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WELL RECORD & LOG

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Page 17 only and 19 only and 1

PAGE 1 OF 2

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استندا			アー・ヘヘビル		TOP HOMBEN		1 117111		1 - 1 <u>1 4 X</u> .	1		

LOCATION

PAGE 2 OF 2

				····		
	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED
			THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES		YIELD FOR WATER-
	FROM	ТО	(1661)	(attach supplemental sheets to fully describe all units)	(YES / NO)	BEARING ZONES (gpm)
	1	20	20	Caliche	OY 6 N	
	20	90	70	Sand	CY 6 N	
	90	105	15	Sand	C Y C N	
	105	115	10	Sand & Gravel	Счеи	
	115	138	23	Sand	C Y 6 N	
Ţ	138	146	8	Red Clay	CY 6 N	
WEL	146	980	834	Red & Brown Shale	Ç Y € N	100
OF.	980	1014	34	Red & Brown Shale with some sandrock	CA & N	* 4
90	1014	1135	121	Shale with Stringers of sandrock	© Y C N	
4. HYDROGEOLOGIC LOG OF WELL	1135	1235	100	Santa Rosa Sand (some shale stringers)	● Y C N	
507	1235	1258	23	Fine Santa Rosa Sand	© Y C N	
EO				:	C Y C N	
ROC					$O^{Y} O^{N}$	
άλε	,				CY CN	
4					C Y C N	
					OY CN	
					C Y C N	
					CYCN	
					OY ON	
					OY CN	
					CYCN	
	METHOD (JSED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED	20
	C AIR LIF	т С	BAILER C	OTHER – SPECIFY:	WELL YIELD (gpm):	30
z	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE		
ISION	MISCELLA	NEOLIS INT	FORMATION:			
ERV	0' to 1014					,
SUP	1014' to 1	1258' drille	ed with air and	d foam.		
TEST; RIG SUPERV	Went bac	k in well o	on 07/21/16 &	07/22/16: Cleaned out & deepened. Installed 322' of 7" lin	er.	
ST;				RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS		IANTICENSES
5. TE	PRINTINAL	ME(3) OF D	KILL KIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION OTHER TH	IMN EICENSEE.
	THE UNDE	RSIGNED I	IEREBY CERTII	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIE	F, THE FOREGOING IS	A TRUE AND
RE				DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RE 20 DAYS AFTER COMPLETION OF WELL DRILLING:	CORD WITH THE STA	TE ENGINEER
SIGNATURE		1	1)		
ICN	1	b.	Solow	Panky Olevs	8/8/16	•
. 6. S	Just	SIGNAT	URE OF DRILL		DATE	
		JONAI	OILL OF DIGILITY	A AMERIA DESCRIPTION OF THE STATE OF THE STA	DATE	
	R OSE INTER				L RECORD & LOG (Ve	·
FIL	E NUMBER	-0.0	1234	POD NUMBER TRN NUMBI	ER 5531	2 .

LOCATION



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323022103285301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323022103285301 21S.34E.04.311331

Lea County, New Mexico

Table of data Tab-separated data

Latitude 32°30'50.1", Longitude 103°28'59.8" NAD83 Land-surface elevation 3,713 feet above NAVD88

The depth of the well is 125 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Graph of da	<u>ta</u>									
Reselect pe	riod									
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	? Measurin agency	? Source measu
1981-03-1	1	D	62610		3625.09	NGVD29	1	:	Z	
1981-03-1	1	D	62611		3626.65	NAVD88	1	:	Z	
1981-03-1	1	D	72019	86.35			1	:	Z	
1986-03-2	1	D	62610		3622.97	NGVD29	1	:	Z	
1986-03-2	1	D	62611		3624.53	NAVD88	1	:	Z	
1986-03-2	1	D	72019	88.47			1	:	Z	
1991-05-0	1	D	62610		3621.34	NGVD29	1	:	Z	
1991-05-0	1	D	62611		3622.90	NAVD88	1	:	Z	
1991-05-0	1	D	72019	90.10			1	:	Z	
1996-03-1	3	D	62610		3620.30	NGVD29	1	:	S	
1996-03-1	3	D	62611		3621.86	NAVD88	1	!	S	
1996-03-1	3	D	72019	91.14			1	:	S	
2015-12-1	7 23:00 UTC	m	62610		3618.77	NGVD29	1	!	S I	USGS
2015-12-1	7 23:00 UTC	m	62611		3620.33	NAVD88	1	:	s I	USGS

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 measur
2015-12-17	23:00 UTC	m	72019	92.67			1		S USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> Data Tips Explanation of terms Subscribe for system changes

<u>News</u>

Accessibility Privacy FOIA Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-07-13 13:10:12 EDT
0.29 0.25 nadww01

USA.gov



APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC Stratojet 31 State Com 008H Incident Number: NAPP2314235805



South East Elevation

• 315*NN (T) • 32.52486, -103.50395 ±5 m ▲ 1120 m

Photograph: 1

Description: Initial Release

View: North

Date: 4/19/2023

Photograph: 2

Date: 5/22/2023

Description: Initial Assessment Activities

View: Northwest





Photograph: 3

Date: 6/14/2023

Description: Excavation Activities

View: Southeast

Photograph: 4

Date: 6/26/2023

Description: Excavation Activities

View: East



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/31/2023 9:51:53 AM

JOB DESCRIPTION

Stratojet 31 State Com 8H SDG NUMBER 03D2024191

JOB NUMBER

890-4709-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated 5/31/2023 9:51:53 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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13

14

Client: Ensolum Project/Site: Stratojet 31 State Com 8H Laboratory Job ID: 890-4709-1 SDG: 03D2024191

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QC Association Summary	19
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Certification Summary	25
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Sample Summary	27
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Definitions/Glossary

Job ID: 890-4709-1 Client: Ensolum Project/Site: Stratojet 31 State Com 8H

SDG: 03D2024191

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**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4709-1

SDG: 03D2024191

Job ID: 890-4709-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4709-1

Receipt

The samples were received on 5/23/2023 8:34 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 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4709-1), SS02 (890-4709-2), SS03 (890-4709-3), SS04 (890-4709-4), SS05 (890-4709-5), SS06 (890-4709-6) and SS07 (890-4709-7).

GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 880-54206 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-54206/11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-54098 and 880-54102 and analytical batch 880-54206 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54206 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54206/6). 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54064 and analytical batch 880-54024 was outside the upper control limits.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-54080 and analytical batch 880-54026 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS03 (890-4709-3), SS04 (890-4709-4), SS05 (890-4709-5), SS06 (890-4709-6) and SS07 (890-4709-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54056 and analytical batch 880-54097 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 Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS01 Lab Sample ID: 890-4709-1

Date Collected: 05/22/23 15:00 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 10:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 10:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 10:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/23 15:24	05/27/23 10:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 10:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/23 15:24	05/27/23 10:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			05/24/23 15:24	05/27/23 10:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130			05/24/23 15:24	05/27/23 10:31	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/31/23 10:19	1
Method: SW846 8015 NM - Dies	•		•		_			B.: F
Method: SW846 8015 NM - Dies Analyte	•	ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	D	Prepared	Analyzed 05/25/23 10:20	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte	Result <49.9 esel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result <49.9 esel Range Orga	Qualifier U unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u> </u>		05/25/23 10:20	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9 esel Range Orga Result	Qualifier U unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u> </u>	Prepared	05/25/23 10:20 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 esel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg	<u> </u>	Prepared	05/25/23 10:20 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 esel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 05:33	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Pesel Range Orga Result <49.9 <49.9	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/24/23 12:15 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 05:33 05/25/23 05:33	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)	Result	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 05:33 05/25/23 05:33	Dil Face 1 1 1 Dil Face
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 unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared	Analyzed 05/25/23 05:33 05/25/23 05:33 05/25/23 05:33 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Inics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 05:33 05/25/23 05:33 Analyzed 05/25/23 05:33	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 Pesel Range Orga Result <49.9 449.9 449.9 449.9 **Recovery 107 114 Chromatograp	Qualifier U Inics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 05:33 05/25/23 05:33 Analyzed 05/25/23 05:33	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-4709-2

Date Collected: 05/22/23 14:30 Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 13:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 13:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 13:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/23 15:24	05/27/23 13:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 13:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/23 15:24	05/27/23 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/24/23 15:24	05/27/23 13:07	1

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-4709-1
Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS02

Date Collected: 05/22/23 14:30

Lab Sample ID: 890-4709-2

Matrix: Solid

Date Collected: 05/22/23 14:30
Date Received: 05/23/23 08:34

Sample Depth: 0.5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	96	70 - 130	05/24/23 15:24	05/27/23 13:07	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			05/31/23 10:19	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	ma/Ka			05/25/23 11:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/24/23 12:56	05/24/23 22:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/23 12:56	05/24/23 22:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:56	05/24/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127	70 - 130	05/24/23 12:56	05/24/23 22:00	1
o-Terphenyl	100	70 - 130	05/24/23 12:56	05/24/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.7		5.00	mg/Kg			05/25/23 13:57	1

Client Sample ID: SS03 Lab Sample ID: 890-4709-3

Date Collected: 05/22/23 14:35 Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

moniou. Offoro our ib Tolum	organio comp	oundo (OO)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/24/23 15:24	05/27/23 13:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/23 15:24	05/27/23 13:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/23 15:24	05/27/23 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 15:24	05/27/23 13:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/23 15:24	05/27/23 13:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 15:24	05/27/23 13:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/23 15:24	05/27/23 13:34	1

4-Bromofluorobenzene (Surr)	93	70 - 130	05/24/23 15:24	05/27/23 13:34	1
1,4-Difluorobenzene (Surr)	97	70 - 130	05/24/23 15:24	05/27/23 13:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/31/23 10:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/25/23 11:47	1

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Matrix: Solid

Job ID: 890-4709-1

Client: Ensolum Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS03 Lab Sample ID: 890-4709-3

Date Collected: 05/22/23 14:35 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/24/23 12:56	05/24/23 23:05	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/24/23 12:56	05/24/23 23:05	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:56	05/24/23 23:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			05/24/23 12:56	05/24/23 23:05	1
o-Terphenyl	105		70 - 130			05/24/23 12:56	05/24/23 23:05	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allulyto								

Lab Sample ID: 890-4709-4 **Client Sample ID: SS04**

Date Collected: 05/22/23 14:40 Matrix: Solid

Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/24/23 15:24	05/27/23 14:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/24/23 15:24	05/27/23 14:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/24/23 15:24	05/27/23 14:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/24/23 15:24	05/27/23 14:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/24/23 15:24	05/27/23 14:01	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/24/23 15:24	05/27/23 14:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/24/23 15:24	05/27/23 14:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/24/23 15:24	05/27/23 14:01	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/31/23 10:19	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 11:47	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/23 12:56	05/24/23 23:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:56	05/24/23 23:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:56	05/24/23 23:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			05/24/23 12:56	05/24/23 23:26	1

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Job ID: 890-4709-1

Client: Ensolum Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS04 Lab Sample ID: 890-4709-4 Matrix: Solid

Date Collected: 05/22/23 14:40 Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551	5.02	mg/Kg			05/25/23 14:07	1

Lab Sample ID: 890-4709-5 **Client Sample ID: SS05** Matrix: Solid

Date Collected: 05/22/23 14:45 Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 15:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/23 15:24	05/27/23 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 15:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/23 15:24	05/27/23 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			05/24/23 15:24	05/27/23 15:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/24/23 15:24	05/27/23 15:47	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/31/23 10:19	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 11:47	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/23 12:56	05/24/23 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:56	05/24/23 23:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:56	05/24/23 23:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			05/24/23 12:56	05/24/23 23:48	1
o-Terphenyl	104		70 - 130			05/24/23 12:56	05/24/23 23:48	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 890-4709-1

Client: Ensolum Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS06 Lab Sample ID: 890-4709-6

Date Collected: 05/22/23 14:50 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 0.5'

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:14	1
Toluene	< 0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/23 15:24	05/27/23 16:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/23 15:24	05/27/23 16:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/24/23 15:24	05/27/23 16:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/24/23 15:24	05/27/23 16:14	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/31/23 10:19	1
Mothod: SW946 9045 NM Dioc	ol Bango Organ	ice (DBO) (GC)					
Method: SW846 8015 NM - Diese Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.5	- Qualifier	50.0			Troparca	Analyzea	Diriac
Total IFII	31.3			ma/ka			05/25/23 11:47	1
_			00.0	mg/Kg			05/25/23 11:47	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)		mg/Kg			05/25/23 11:47	1
Method: SW846 8015B NM - Dies Analyte	•	nics (DRO) Qualifier		mg/Kg Unit	D	Prepared	05/25/23 11:47 Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	(GC)		<u>D</u>	Prepared 05/24/23 12:56		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier	(GC) RL 50.0	Unit mg/Kg	<u>D</u>	05/24/23 12:56	Analyzed 05/25/23 00:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier	(GC)	Unit	<u>D</u>	<u>.</u>	Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	(GC) RL 50.0	Unit mg/Kg	<u>D</u>	05/24/23 12:56	Analyzed 05/25/23 00:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 51.5 <50.0	Qualifier U	(GC) RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	05/24/23 12:56 05/24/23 12:56 05/24/23 12:56	Analyzed 05/25/23 00:09 05/25/23 00:09 05/25/23 00:09	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <50.0 51.5 <50.0 %Recovery	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg mg/Kg	<u>D</u>	05/24/23 12:56 05/24/23 12:56 05/24/23 12:56 Prepared	Analyzed 05/25/23 00:09 05/25/23 00:09 05/25/23 00:09 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 51.5 <50.0	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	05/24/23 12:56 05/24/23 12:56 05/24/23 12:56	Analyzed 05/25/23 00:09 05/25/23 00:09 05/25/23 00:09	Dil Fac
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 <50.0 51.5 <50.0 %Recovery 133 105	Qualifier U Qualifier S1+	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u> </u>	05/24/23 12:56 05/24/23 12:56 05/24/23 12:56 Prepared 05/24/23 12:56	Analyzed 05/25/23 00:09 05/25/23 00:09 05/25/23 00:09 Analyzed 05/25/23 00:09	Dil Face 1 1 1 Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier S1+	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	05/24/23 12:56 05/24/23 12:56 05/24/23 12:56 Prepared 05/24/23 12:56	Analyzed 05/25/23 00:09 05/25/23 00:09 05/25/23 00:09 Analyzed 05/25/23 00:09	Dil Fac

Client Sample ID: SS07 Lab Sample ID: 890-4709-7

Date Collected: 05/22/23 14:55 Date Received: 05/23/23 08:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/23 15:24	05/27/23 16:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/23 15:24	05/27/23 16:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/23 15:24	05/27/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			05/24/23 15:24	05/27/23 16:41	1

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4709-1
Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS07

Date Collected: 05/22/23 14:55

Lab Sample ID: 890-4709-7

Matrix: Solid

Date Collected: 05/22/23 14:55
Date Received: 05/23/23 08:34

11100 F1

Sample Depth: 0.5'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130			05/24/23 15:24	05/27/23 16:41	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/31/23 10:19	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/25/23 11:47	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies				l lmiá		Drawarad	Amalumad	Dil Foo
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/24/23 12:56	05/25/23 00:31	1
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/24/23 12:56	05/25/23 00:31	1
C10-C28)		•		99				
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/24/23 12:56	05/25/23 00:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			05/24/23 12:56	05/25/23 00:31	1
	105		70 - 130			05/24/23 12:56	05/25/23 00:31	1

99.0

mg/Kg

05/25/23 14:37

Surrogate Summary

Client: Ensolum
Project/Site: Stratojet 31 State Com 8H
SDG: 03D2024191

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4707-A-21-C MS	Matrix Spike	84	105	
890-4707-A-21-D MSD	Matrix Spike Duplicate	85	98	
890-4709-1	SS01	86	108	
890-4709-2	SS02	87	96	
890-4709-3	SS03	93	97	
890-4709-4	SS04	94	102	
890-4709-5	SS05	85	91	
890-4709-6	SS06	94	101	
890-4709-7	SS07	86	99	
LCS 880-54098/1-A	Lab Control Sample	80	118	
LCSD 880-54098/2-A	Lab Control Sample Dup	81	107	
MB 880-54098/5-A	Method Blank	53 S1-	100	
MB 880-54102/5-A	Method Blank	51 S1-	98	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4709-1	SS01	107	114	
890-4709-2	SS02	127	100	
890-4709-2 MS	SS02	118	85	
890-4709-2 MSD	SS02	121	87	
890-4709-3	SS03	133 S1+	105	
890-4709-4	SS04	134 S1+	105	
890-4709-5	SS05	132 S1+	104	
890-4709-6	SS06	133 S1+	105	
890-4709-7	SS07	133 S1+	105	
890-4711-A-1-E MS	Matrix Spike	105	100	
890-4711-A-1-F MSD	Matrix Spike Duplicate	113	107	
LCS 880-54064/2-A	Lab Control Sample	86	82	
LCS 880-54080/2-A	Lab Control Sample	103	79	
LCSD 880-54064/3-A	Lab Control Sample Dup	86	84	
LCSD 880-54080/3-A	Lab Control Sample Dup	103	79	
MB 880-54064/1-A	Method Blank	169 S1+	181 S1+	
MB 880-54080/1-A	Method Blank	170 S1+	138 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54098/5-A

Lab Sample ID: LCS 880-54098/1-A

Matrix: Solid Analysis Batch: 54206 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 54098

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 07:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 07:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 07:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/23 15:24	05/27/23 07:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:24	05/27/23 07:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/23 15:24	05/27/23 07:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130	05/24/23 15:24	05/27/23 07:23	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/24/23 15:24	05/27/23 07:23	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54098

Prep Type: Total/NA

Prep Batch: 54098

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1225 mg/Kg 123 70 - 130 Toluene 0.100 0.1063 mg/Kg 106 70 - 130 0.100 100 Ethylbenzene 0.1001 mg/Kg 70 - 130 0.200 97 70 - 130 m-Xylene & p-Xylene 0.1944 mg/Kg 0.100 0.09737 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	80		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 54206

Analysis Batch: 54206

Lab Sample ID: LCSD 880-54098/2-A

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1289		mg/Kg		129	70 - 130	5	35	
Toluene	0.100	0.1105		mg/Kg		110	70 - 130	4	35	
Ethylbenzene	0.100	0.1071		mg/Kg		107	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130	8	35	
o-Xvlene	0.100	0 1070		ma/Ka		107	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: 890-4707-A-21-C MS

Matrix: Solid

Analysis Batch: 54206

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

Prep Batch: 54098

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1210		mg/Kg		121	70 - 130	
Toluene	< 0.00199	U	0.0998	0.1091		mg/Kg		109	70 - 130	

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

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

Lab Sample ID: 890-4707-A-21-C MS **Matrix: Solid**

Analysis Batch: 54206									Prep	Batch: 54098
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.1058		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2034		mg/Kg		102	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.1001		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-4707-A-21-D MSD

Analysis Batch: 54206

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Prep Batch: 54098

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.1191 mg/Kg 119 70 - 130 2 35 0.100 Toluene <0.00199 0.1091 mg/Kg 109 70 - 130 0 35 Ethylbenzene <0.00199 U 0.100 0.1025 mg/Kg 102 70 - 130 3 35 0.201 0.1976 70 - 130 35 m-Xylene & p-Xylene <0.00398 U mg/Kg 98 3 0.100 <0.00199 U 0.09868 98 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	85	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-54102/5-A

Matrix: Solid

Analysis Batch: 54206

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 54102 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:59	05/26/23 17:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:59	05/26/23 17:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:59	05/26/23 17:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/23 15:59	05/26/23 17:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 15:59	05/26/23 17:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/23 15:59	05/26/23 17:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	05/24/23 15:59	05/26/23 17:47	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/24/23 15:59	05/26/23 17:47	1

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

Lab Sample ID: MB 880-54064/1-A

Released to Imaging: 10/13/2023 2:57:56 PM

Matrix: Solid

Analysis Batch: 54024

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 54064

мв мв Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 05/24/23 12:15 05/24/23 20:53 Gasoline Range Organics (GRO)-C6-C10

Client: Ensolum Job ID: 890-4709-1 SDG: 03D2024191 Project/Site: Stratojet 31 State Com 8H

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

Lab Sample ID: MB 880-54064/1-A

Analysis Batch: 54024

Matrix: Solid

MR MR

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54064

	IIID	1110						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/24/23 20:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/24/23 20:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	05/24/23 12:15	05/24/23 20:53	1
o-Terphenyl	181	S1+	70 - 130	05/24/23 12:15	05/24/23 20:53	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54064

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 973.2 97 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 984.0 mg/Kg 98 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-54064/3-A

Lab Sample ID: LCS 880-54064/2-A

Matrix: Solid

Analysis Batch: 54024

Matrix: Solid Analysis Batch: 54024 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54064

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	958.6		mg/Kg		96	70 - 130	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1005		mg/Kg		100	70 - 130	2	20	
C40 C20\										

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-4711-A-1-E MS

Matrix: Solid

Analysis Batch: 54024

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 54064

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	970.9		mg/Kg		95	70 - 130
Diesel Range Organics (Over	<49.8	U	999	934.2		mg/Kg		91	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-4711-A-1-F MSD

QC Sample Results

Client: Ensolum Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 54064

Analysis Batch: 54024 Sample Sample Spike MSD MSD RPD Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics <49.8 U 997 1025 mg/Kg 100 70 - 130 5 20 (GRO)-C6-C10 997 Diesel Range Organics (Over <49.8 U 1015 mg/Kg 99 70 - 130 8 20

C10-C28)

Matrix: Solid

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: MB 880-54080/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 54026

мв мв

Prep Type: Total/NA Prep Batch: 54080

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 50.0 05/24/23 12:56 05/24/23 20:56 Gasoline Range Organics <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/24/23 12:56 05/24/23 20:56 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/24/23 12:56 05/24/23 20:56

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130	05/24/23 12:56	05/24/23 20:56	1
o-Terphenyl	138	S1+	70 - 130	05/24/23 12:56	05/24/23 20:56	1

Lab Sample ID: LCS 880-54080/2-A

Matrix: Solid

Analysis Batch: 54026

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 54080

Prep Type: Total/NA

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 916.4 mg/Kg 92 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 954.6 mg/Kg 95 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	79	70 - 130

Lab Sample ID: LCSD 880-54080/3-A

Matrix: Solid

Analysis Batch: 54026							Prep	Batch:	54080
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	853.2		mg/Kg		85	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	878.9		mg/Kg		88	70 - 130	8	20
C10-C28)									

Job ID: 890-4709-1 Client: Ensolum Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

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

LCSD LCSD

Lab Sample ID: LCSD 880-54080/3-A **Matrix: Solid**

Analysis Batch: 54026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: SS02

Prep Batch: 54080

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 103 70 - 130 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-4709-2 MS **Client Sample ID: SS02** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 54026

Prep Batch: 54080 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 996 876.3 88 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 788.5 79 <49.9 U mg/Kg 70 - 130C10-C28)

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 118 85 70 - 130 o-Terphenyl

Lab Sample ID: 890-4709-2 MSD

Matrix: Solid

Analysis Batch: 54026

Prep Type: Total/NA Prep Batch: 54080 Sample Sample MSD MSD RPD

Spike Analyte Result Qualifier hahhA Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U 996 888.8 mg/Kg 89 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 815.5 mg/Kg 82 70 - 130 3 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 121 70 - 130 o-Terphenyl 87

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54056/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54097

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/25/23 12:17

Lab Sample ID: LCS 880-54056/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 54097

Released to Imaging: 10/13/2023 2:57:56 PM

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	258.5		mg/Kg		103	90 - 110	

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Prep Type: Soluble

Chloride

QC Sample Results

Client: Ensolum Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H

SDG: 03D2024191

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-54056/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 54097

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

Client Sample ID: SS07 Lab Sample ID: 890-4709-7 MS **Matrix: Solid**

250

Prep Type: Soluble Analysis Batch: 54097

257.5

mg/Kg

103

90 - 110

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 11100 F1 4950 17090 F1 mg/Kg 121 90 - 110

Lab Sample ID: 890-4709-7 MSD **Client Sample ID: SS07 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54097

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit Chloride 11100 F1 4950 16850 F1 116 90 - 110 20 mg/Kg

Client: Ensolum Job ID: 890-4709-1
Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

GC VOA

Prep Batch: 54098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Total/NA	Solid	5035	
890-4709-2	SS02	Total/NA	Solid	5035	
890-4709-3	SS03	Total/NA	Solid	5035	
890-4709-4	SS04	Total/NA	Solid	5035	
890-4709-5	SS05	Total/NA	Solid	5035	
890-4709-6	SS06	Total/NA	Solid	5035	
890-4709-7	SS07	Total/NA	Solid	5035	
MB 880-54098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4707-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4707-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 54102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54102/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 54206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Total/NA	Solid	8021B	54098
890-4709-2	SS02	Total/NA	Solid	8021B	54098
890-4709-3	SS03	Total/NA	Solid	8021B	54098
890-4709-4	SS04	Total/NA	Solid	8021B	54098
890-4709-5	SS05	Total/NA	Solid	8021B	54098
890-4709-6	SS06	Total/NA	Solid	8021B	54098
890-4709-7	SS07	Total/NA	Solid	8021B	54098
MB 880-54098/5-A	Method Blank	Total/NA	Solid	8021B	54098
MB 880-54102/5-A	Method Blank	Total/NA	Solid	8021B	54102
LCS 880-54098/1-A	Lab Control Sample	Total/NA	Solid	8021B	54098
LCSD 880-54098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54098
890-4707-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	54098
890-4707-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54098

Analysis Batch: 54478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Total/NA	Solid	Total BTEX	- <u> </u>
890-4709-2	SS02	Total/NA	Solid	Total BTEX	
890-4709-3	SS03	Total/NA	Solid	Total BTEX	
890-4709-4	SS04	Total/NA	Solid	Total BTEX	
890-4709-5	SS05	Total/NA	Solid	Total BTEX	
890-4709-6	SS06	Total/NA	Solid	Total BTEX	
890-4709-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 54024

Lab Sample ID 890-4709-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 54064
MB 880-54064/1-A	Method Blank	Total/NA	Solid	8015B NM	54064
LCS 880-54064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54064
LCSD 880-54064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54064

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Client: Ensolum Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

GC Semi VOA (Continued)

Analysis Batch: 54024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	54064
890-4711-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54064

Analysis Batch: 54026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-2	SS02	Total/NA	Solid	8015B NM	54080
890-4709-3	SS03	Total/NA	Solid	8015B NM	54080
890-4709-4	SS04	Total/NA	Solid	8015B NM	54080
890-4709-5	SS05	Total/NA	Solid	8015B NM	54080
890-4709-6	SS06	Total/NA	Solid	8015B NM	54080
890-4709-7	SS07	Total/NA	Solid	8015B NM	54080
MB 880-54080/1-A	Method Blank	Total/NA	Solid	8015B NM	54080
LCS 880-54080/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54080
LCSD 880-54080/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54080
890-4709-2 MS	SS02	Total/NA	Solid	8015B NM	54080
890-4709-2 MSD	SS02	Total/NA	Solid	8015B NM	54080

Prep Batch: 54064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-54064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4711-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4711-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 54080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-2	SS02	Total/NA	Solid	8015NM Prep	
890-4709-3	SS03	Total/NA	Solid	8015NM Prep	
890-4709-4	SS04	Total/NA	Solid	8015NM Prep	
890-4709-5	SS05	Total/NA	Solid	8015NM Prep	
890-4709-6	SS06	Total/NA	Solid	8015NM Prep	
890-4709-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-54080/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54080/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54080/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4709-2 MS	SS02	Total/NA	Solid	8015NM Prep	
890-4709-2 MSD	SS02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Total/NA	Solid	8015 NM	
890-4709-2	SS02	Total/NA	Solid	8015 NM	
890-4709-3	SS03	Total/NA	Solid	8015 NM	
890-4709-4	SS04	Total/NA	Solid	8015 NM	
890-4709-5	SS05	Total/NA	Solid	8015 NM	
890-4709-6	SS06	Total/NA	Solid	8015 NM	
890-4709-7	SS07	Total/NA	Solid	8015 NM	

Client: Ensolum
Project/Site: Stratojet 31 State Com 8H
SDG: 03D2024191

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Leach Batch: 54056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Soluble	Solid	DI Leach	
890-4709-2	SS02	Soluble	Solid	DI Leach	
890-4709-3	SS03	Soluble	Solid	DI Leach	
890-4709-4	SS04	Soluble	Solid	DI Leach	
890-4709-5	SS05	Soluble	Solid	DI Leach	
890-4709-6	SS06	Soluble	Solid	DI Leach	
890-4709-7	SS07	Soluble	Solid	DI Leach	
MB 880-54056/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54056/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54056/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4709-7 MS	SS07	Soluble	Solid	DI Leach	
890-4709-7 MSD	SS07	Soluble	Solid	DI Leach	

Analysis Batch: 54097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4709-1	SS01	Soluble	Solid	300.0	54056
890-4709-2	SS02	Soluble	Solid	300.0	54056
890-4709-3	SS03	Soluble	Solid	300.0	54056
890-4709-4	SS04	Soluble	Solid	300.0	54056
890-4709-5	SS05	Soluble	Solid	300.0	54056
890-4709-6	SS06	Soluble	Solid	300.0	54056
890-4709-7	SS07	Soluble	Solid	300.0	54056
MB 880-54056/1-A	Method Blank	Soluble	Solid	300.0	54056
LCS 880-54056/2-A	Lab Control Sample	Soluble	Solid	300.0	54056
LCSD 880-54056/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54056
890-4709-7 MS	SS07	Soluble	Solid	300.0	54056
890-4709-7 MSD	SS07	Soluble	Solid	300.0	54056

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Client: Ensolum
Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4709-1 SDG: 03D2024191

Client Sample ID: SS01

Date Collected: 05/22/23 15:00

Lab Sample ID: 890-4709-1 Matrix: Solid

Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 10:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			54159	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 05:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54056	05/24/23 11:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54097	05/25/23 13:24	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4709-2

Date Collected: 05/22/23 14:30 Matrix: Solid

Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			54159	05/25/23 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54080	05/24/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54026	05/24/23 22:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54056	05/24/23 11:18	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	54097	05/25/23 13:57	CH	EET MID

Client Sample ID: SS03

Date Collected: 05/22/23 14:35

Lab Sample ID: 890-4709-3

Matrix: Solid

Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			54159	05/25/23 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54080	05/24/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54026	05/24/23 23:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54056	05/24/23 11:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54097	05/25/23 14:02	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4709-4

Date Collected: 05/22/23 14:40 Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Page 22 of 30

Client: Ensolum

Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS04 Lab Sample ID: 890-4709-4

Date Collected: 05/22/23 14:40 Matrix: Solid Date Received: 05/23/23 08:34

Batch		Batch	Di	Dil	Dil Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54159	05/25/23 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54080	05/24/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54026	05/24/23 23:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54056	05/24/23 11:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54097	05/25/23 14:07	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4709-5

Date Collected: 05/22/23 14:45 **Matrix: Solid**

Date Received: 05/23/23 08:34

	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	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			54159	05/25/23 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54080	05/24/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54026	05/24/23 23:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54056	05/24/23 11:18	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	54097	05/25/23 14:13	CH	EET MID

Lab Sample ID: 890-4709-6 **Client Sample ID: SS06**

Date Collected: 05/22/23 14:50 Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 16:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			54159	05/25/23 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54080	05/24/23 12:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54026	05/25/23 00:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54056	05/24/23 11:18	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	54097	05/25/23 14:18	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4709-7

Date Collected: 05/22/23 14:55 Date Received: 05/23/23 08:34

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54098	05/24/23 15:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54206	05/27/23 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54478	05/31/23 10:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			54159	05/25/23 11:47	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	54080 54026	05/24/23 12:56 05/25/23 00:31	AJ SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SS07 Lab Sample ID: 890-4709-7 Date Collected: 05/22/23 14:55

Matrix: Solid

Date Received: 05/23/23 08:34

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Soluble	Leach	DI Leach			5.05 g	50 mL	54056	05/24/23 11:18	KS	EET MID
L	Soluble	Analysis	300.0		20	50 mL	50 mL	54097	05/25/23 14:37	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Stratojet 31 State Com 8H
SDG: 03D2024191

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for	
the agency does not of	fer certification.	•	, , ,	.,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,	
0 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: Ensolum

Job ID: 890-4709-1 Project/Site: Stratojet 31 State Com 8H

00.0				
SD	G: 0	3D2	0241	91

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4709-1

SDG: 03D2024191

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4709-1	SS01	Solid	05/22/23 15:00	05/23/23 08:34	0.5'
890-4709-2	SS02	Solid	05/22/23 14:30	05/23/23 08:34	0.5'
890-4709-3	SS03	Solid	05/22/23 14:35	05/23/23 08:34	0.5'
390-4709-4	SS04	Solid	05/22/23 14:40	05/23/23 08:34	0.5'
390-4709-5	SS05	Solid	05/22/23 14:45	05/23/23 08:34	0.5'
390-4709-6	SS06	Solid	05/22/23 14:50	05/23/23 08:34	0.5'
890-4709-7	SS07	Solid	05/22/23 14:55	05/23/23 08:34	0.5'

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Received by OCD: 7/20/2023 10:54:06 AM



Environment Testing Xenco

Chain of Custody

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

Mark	Order No		
VVIJIK	CHUEL NO	<i>)</i> .	

www.xenco.com

Project Manager:	Hadli	e Green				Bill to: (if	different)	Kalei	Jennin	gs					Work Order Comments							
Company Name:		lum LLC		E-5,00		Compan		:	Ensol	um LL	<u> </u>	5725				1	ram: U		T P	RP B	rownfie	elds ☐ RF	C Superfund
Address:		National		lwy		Address		Denosting: Loyal III								По	vel III PST/UST TRRP Level IV						
City, State ZIP:	Carls	bad, NM	88220			City, Sta	te ZIP:									1					DaPT [ner:
Phone:	432-5	557-8895			Email:	hgreen(@enso	um.co	om							Deliv	erables	S: EDL	, ப	A	DaPi	J 011	ier.
Project Name:	Strate	ojet 31 Sta	ate Con	n 8H	Turr	Around							A	NALYS	SIS RE	QUEST	r					Prese	vative Codes
Project Number:	-	024191			☑ Routine	Rush)	Pres.													No	one: NO	DI Water: H
Project Location:	32 52	248, -103.	5029		Due Date:	5 D	av									1					C	ool: Cool	MeOH: Me
Sampler's Name:	-	i Hayes	0020		TAT starts th																н	CL: HC	HNO ₃ : HN
Cost Center #:					the lab, if red			₁						- 1							H;	₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECE	CEIPT Temp Blank: Yes No Wet Ice: Yes No 9 0							H₃PO₄: HP															
Samples Received I					er ID:	TM	-907	Гап	300.0)			1				dull						aHSO₄. NA	
Cooler Custody Sea	ls:		N/A	Correction F	actor:	-D	.2	Pa	(EPA:													a ₂ S ₂ O ₃ : Na	
Sample Custody Se	als:	Yes No	N/A	Temperature	e Reading:		D.		S (E		890-4709 Chain of 0				ustody				Zn Acetate+NaOH: Zn				
Total Containers:				Corrected T	emperature:	0	.8		ORIDES										A		N	aOH+Asco	rbic Acid: SAPC
Sample Ide	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont		втех	трн											Samp	le Comments
SSC	01		S	5/22/2023	1500	0.5'	Grab	1	Х	Х	Х												
SSC)2		S	5/22/2023	1430	0.5'	Grab	1	Х	Х	Х												
SSO	03		S	5/22/2023	1435	0.5'	Grab	1	Х	Х	Х								100				
SSO)4		S	5/22/2023	1440	0.5'	Grab	1	Х	Х	Х												
SSC)5	***************************************	S	5/22/2023	1445	0.5'	Grab	1	Х	Х	Х												
SSC			S	5/22/2023	1450	0.5'	Grab	1	Х	Х	Х												
SSC	07		S	5/22/2023	1455	0.5'	Grab	1	Х	Х	Х			1									
			_					1															

TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

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

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 \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
man	Litak	5/23/22 815am	2		
	Alamanda Stut	\$ /23/23 08:	44		
			6		Pevised Date: 08/25/2020 Rev.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4709-1 SDG Number: 03D2024191

Login Number: 4709 List Source: Eurofins Carlsbad

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4709-1 SDG Number: 03D2024191

Login Number: 4709 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/24/23 10:58 AM

Creator: Rodriguez, Leticia

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

Eurofins Carlsbad

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 7/6/2023 10:05:35 AM Revision 1

JOB DESCRIPTION

Stratojet 31 State Com 8H SDG NUMBER 03D2024191

JOB NUMBER

890-4863-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

Generated 7/6/2023 10:05:35 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Ensolum
Project/Site: Stratojet 31 State Com 8H

Laboratory Job ID: 890-4863-1 SDG: 03D2024191

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Definitions/Glossary

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H

SDG: 03D2024191

Qualifiers

GC VOA Qualifier

LCS and/or LCSD is outside acceptance limits, high biased.

Qualifier Description

F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased.

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

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

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)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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: Stratojet 31 State Com 8H

Job ID: 890-4863-1

SDG: 03D2024191

Job ID: 890-4863-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4863-1

REVISION

The report being provided is a revision of the original report sent on 7/3/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re run on SW04.

Receipt

The samples were received on 6/26/2023 2:35 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 3.4°C

Receipt Exceptions

The following were received and analyzed from an unpreserved bulk soil jar: SW01 (890-4863-1), SW02 (890-4863-2), SW03 (890-4863-3) and SW04 (890-4863-4).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-56543 and analytical batch 880-56598 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene and m-Xylene & p-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-56543/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-56543 and analytical batch 880-56598 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-30176-A-3-D) and (880-30176-A-3-B MS). 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: SW04 (890-4863-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4871-A-5-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-56452 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-56452/31).

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-4863-1

06/28/23 13:54 06/29/23 05:03

Client: Ensolum

Job ID: 890-4863-1

Project/Site: Strateiet 31 State Com 8H

SDC: 03D2034101

Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Date Collected: 06/26/23 09:15 Date Received: 06/26/23 14:35

Client Sample ID: SW01

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:17	1
Ethylbenzene	< 0.00199	U *+	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:17	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		06/29/23 08:45	06/29/23 19:17	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:17	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/29/23 08:45	06/29/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				06/29/23 08:45	06/29/23 19:17	1
1,4-Difluorobenzene (Surr)	87		70 - 130				06/29/23 08:45	06/29/23 19:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/30/23 15:51	1

Method: 344046 0015 MM - Dies	sei Kange Org	ganics (DRO) (GC)					
Analyte	Result Qu	ualifier RL	MDL	Unit D) Pi	repared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	i	mg/Kg			06/29/23 09:22	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)		SI 1124				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/23 13:54	06/29/23 05:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/23 13:54	06/29/23 05:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:54	06/29/23 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				06/28/23 13:54	06/29/23 05:03	

Method: EPA 300.0 - Anions, I	on Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331	5.04	mg/Kg			06/28/23 16:07	1

70 - 130

Client Sample ID: SW02

Date Collected: 06/26/23 09:25

Lab Sample ID: 890-4863-2

Matrix: Solid

Date Received: 06/26/23 14:35

Sample Depth: 0 - 4

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:44	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:44	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		06/29/23 08:45	06/29/23 19:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/23 08:45	06/29/23 19:44	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		06/29/23 08:45	06/29/23 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				06/29/23 08:45	06/29/23 19:44	1

Eurofins Carlsbad

-0

3

4

6

8

10

12

Matrix: Solid

Lab Sample ID: 890-4863-2

Job ID: 890-4863-1

Client: Ensolum Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SW02

Date Collected: 06/26/23 09:25 Date Received: 06/26/23 14:35

Sample Depth: 0 - 4

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84	70 - 130	06/29/23 08:45	06/29/23 19:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/30/23 15:51	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/29/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	9	06/28/23 13:54	06/29/23 05:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	9	06/28/23 13:54	06/29/23 05:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Ko	9	06/28/23 13:54	06/29/23 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/28/23 13:54	06/29/23 05:25	1
o-Terphenyl	108		70 - 130	06/28/23 13:54	06/29/23 05:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	290		4.98		mg/Kg				06/28/23 16:12	1

Client Sample ID: SW03 Lab Sample ID: 890-4863-3 **Matrix: Solid**

Date Collected: 06/26/23 09:45 Date Received: 06/26/23 14:35

Sample Depth: 0 - 4

Method: SW846 8021B	Volatile Organic	Compounds (GC)
I MELITOU. SYVOTO OUZID	- Voiallie Ordanic	Combounds (GC)

	Julius Cigains	- opou	40 (00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198		mg/Kg		06/29/23 08:45	06/29/23 20:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/29/23 08:45	06/29/23 20:10	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		06/29/23 08:45	06/29/23 20:10	1
m-Xylene & p-Xylene	< 0.00396	U *+	0.00396		mg/Kg		06/29/23 08:45	06/29/23 20:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/29/23 08:45	06/29/23 20:10	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		06/29/23 08:45	06/29/23 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				06/29/23 08:45	06/29/23 20:10	1
1 / Diffuorobenzene (Surr)	9.1		70 120				06/20/22 08:45	06/20/22 20:10	1

	,,			· ···· , _ · · ·	
4-Bromofluorobenzene (Surr)	118	70 - 130	06/29/23 08:45 0	6/29/23 20:10	1
1,4-Difluorobenzene (Surr)	84	70 - 130	06/29/23 08:45 06	6/29/23 20:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			06/30/23 15:51	1

Analyte	Result Qualifie	r RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			06/29/23 09:22	1

Job ID: 890-4863-1

Client: Ensolum Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SW03

Date Collected: 06/26/23 09:45 Date Received: 06/26/23 14:35

Sample Depth: 0 - 4

Lab Sample ID: 890-4863-3

Matrix: Solid

06/28/23 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/23 13:54	06/29/23 05:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/23 13:54	06/29/23 05:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/23 13:54	06/29/23 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				06/28/23 13:54	06/29/23 05:47	1
o-Terphenyl	100		70 - 130				06/28/23 13:54	06/29/23 05:47	1

Client Sample ID: SW04 Lab Sample ID: 890-4863-4 Date Collected: 06/26/23 09:55 **Matrix: Solid**

5.00

mg/Kg

314

Date Received: 06/26/23 14:35

Sample Depth: 0 - 4

Chloride

Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/30/23 08:34	06/30/23 22:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/30/23 08:34	06/30/23 22:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/30/23 08:34	06/30/23 22:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/30/23 08:34	06/30/23 22:26	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		06/30/23 08:34	06/30/23 22:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/30/23 08:34	06/30/23 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				06/30/23 08:34	06/30/23 22:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/30/23 08:34	06/30/23 22:26	1
Method: TAL SOP Total BTEX	: Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/03/23 01:44	1
- Method: SW846 8015 NM - Die	esel Range	Organics ((DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/23 09:22	1
- Method: SW846 8015B NM - D	Diesel Range	o Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		06/28/23 13:54	06/29/23 06:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		06/28/23 13:54	06/29/23 06:09	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:54	06/29/23 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				06/28/23 13:54	06/29/23 06:09	1
o-Terphenyl	94		70 - 130				06/28/23 13:54	06/29/23 06:09	1

Client Sample Results

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SW04 Lab Sample ID: 890-4863-4

Date Collected: 06/26/23 09:55 **Matrix: Solid**

Date Received: 06/26/23 14:35 Sample Depth: 0 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 07/05/23 16:10 Chloride 4.99 mg/Kg 446

Surrogate Summary

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			Per	cent Surrogate Recove
		BFB1	DFBZ1	
Lab Sample ID Clic	ent Sample ID	(70-130)	(70-130)	
880-30148-A-4-C MS Ma	trix Spike	106	84	
880-30148-A-4-D MSD Ma	trix Spike Duplicate	104	88	
880-30176-A-3-B MS Ma	trix Spike	136 S1+	98	
880-30176-A-3-C MSD Ma	trix Spike Duplicate	112	83	
890-4863-1 SW	/01	126	87	
890-4863-2 SW	/02	118	84	
890-4863-3 SW	/03	118	84	
890-4863-4 SW	/04	134 S1+	90	
LCS 880-56543/1-A Lab	Control Sample	105	77	
LCS 880-56654/1-A Lab	Control Sample	106	91	
LCSD 880-56543/2-A Lab	Control Sample Dup	110	99	
LCSD 880-56654/2-A Lab	Control Sample Dup	120	90	
MB 880-56543/5-A Me	thod Blank	63 S1-	86	
MB 880-56654/5-A Me	thod Blank	71	87	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	(Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
890-4863-1	SW01	87	94						
890-4863-2	SW02	102	108						
890-4863-3	SW03	91	100						
890-4863-4	SW04	88	94						
890-4871-A-5-C MS	Matrix Spike	90	91						
890-4871-A-5-D MSD	Matrix Spike Duplicate	93	92						
LCS 880-56504/2-A	Lab Control Sample	92	101						
LCSD 880-56504/3-A	Lab Control Sample Dup	85	92						
MB 880-56504/1-A	Method Blank	94	105						

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4863-1 SDG: 03D2024191

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56543/5-A

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56543

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/23 08:45	06/29/23 16:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/23 08:45	06/29/23 16:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/23 08:45	06/29/23 16:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/23 08:45	06/29/23 16:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/23 08:45	06/29/23 16:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/23 08:45	06/29/23 16:14	1
	МВ	MD							
	IVIB	MB							

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 63 S1-70 - 130 4-Bromofluorobenzene (Surr) 06/29/23 08:45 06/29/23 16:14 1,4-Difluorobenzene (Surr) 86 70 - 130 06/29/23 08:45 06/29/23 16:14

Lab Sample ID: LCS 880-56543/1-A

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 56543

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1295 mg/Kg 130 70 - 130 Toluene 0.100 mg/Kg 70 - 130 0.1263 126 Ethylbenzene 0.100 mg/Kg 0.1208 121 70 - 130 m-Xylene & p-Xylene 0.200 0.2347 mg/Kg 117 70 - 130 o-Xylene 0.100 0.1254 125 70 - 130 mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-56543/2-A

Matrix: Solid

Analysis Batch: 56598

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

Prep Batch: 56543

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1391	*+	mg/Kg		139	70 - 130	7	35
0.100	0.1300		mg/Kg		130	70 - 130	3	35
0.100	0.1336	*+	mg/Kg		134	70 - 130	10	35
0.200	0.2618	*+	mg/Kg		131	70 - 130	11	35
0.100	0.1301		mg/Kg		130	70 - 130	4	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1391 0.100 0.1300 0.100 0.1336 0.200 0.2618	Added Result Qualifier 0.100 0.1391 *+ 0.100 0.1300 *+ 0.100 0.1336 *+ 0.200 0.2618 *+	Added Result Qualifier Unit 0.100 0.1391 *+ mg/Kg 0.100 0.1300 mg/Kg 0.100 0.1336 *+ mg/Kg 0.200 0.2618 *+ mg/Kg	Added Result Qualifier Unit D 0.100 0.1391 *+ mg/Kg 0.100 0.1300 mg/Kg 0.100 0.1336 *+ mg/Kg 0.200 0.2618 *+ mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1391 *+ mg/Kg 139 0.100 0.1300 mg/Kg 130 0.100 0.1336 *+ mg/Kg 134 0.200 0.2618 *+ mg/Kg 131	Added Result Qualifier Unit D %Rec Limits 0.100 0.1391 *+ mg/Kg 139 70 - 130 0.100 0.1300 mg/Kg 130 70 - 130 0.100 0.1336 *+ mg/Kg 134 70 - 130 0.200 0.2618 *+ mg/Kg 131 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1391 *+ mg/Kg 139 70 - 130 7 0.100 0.1300 mg/Kg 130 70 - 130 3 0.100 0.1336 *+ mg/Kg 134 70 - 130 10 0.200 0.2618 *+ mg/Kg 131 70 - 130 11

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 110 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 880-30148-A-4-C MS

Matrix: Solid

Analysis Batch: 56598

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

Prep Batch: 56543

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U *+	0.0996	0.07271		mg/Kg		73	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.06324	F1	mg/Kg		63	70 - 130	

Client: Ensolum Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4863-1

SDG: 03D2024191

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

Lab Sample ID: 880-30148-A-4-C MS

Lab Sample ID: 880-30148-A-4-D MSD

Matrix: Solid

Analysis Batch: 56598

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 56543

MS MS %Rec Sample Sample Spike **Result Qualifier** Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U *+ F1 0.0996 0.05772 F1 mg/Kg 58 70 - 130 m-Xylene & p-Xylene <0.00402 U*+ F1 0.199 0.1108 F1 mg/Kg 56 70 - 130 o-Xylene <0.00201 UF1 0.0996 0.05574 F1 56 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 56598

Prep Type: Total/NA

Prep Batch: 56543

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 0.0994 70 - 130 5 Benzene <0.00201 U *+ 0.06930 mg/Kg 70 35 Toluene <0.00201 UF1 0.0994 0.05814 F1 58 70 - 130 35 mg/Kg 0.0994 47 Ethylbenzene <0.00201 U*+F1 0.04689 F1 mg/Kg 70 - 130 21 35 m-Xylene & p-Xylene <0.00402 U*+ F1 0.199 0.08876 F1 mg/Kg 45 70 - 130 22 35 <0.00201 UF1 0.0994 0.04332 F1 70 - 130 25 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-56654/5-A

Matrix: Solid

Analysis Batch: 56649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56654

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/30/23 08:34	06/30/23 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/30/23 08:34	06/30/23 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/30/23 08:34	06/30/23 12:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/30/23 08:34	06/30/23 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/30/23 08:34	06/30/23 12:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/30/23 08:34	06/30/23 12:27	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	06/30/23 08:34	06/30/23 12:27	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/30/23 08:34	06/30/23 12:27	1

Lab Sample ID: LCS 880-56654/1-A

Matrix: Solid

Analysis Batch: 56649

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

Prep Batch: 56654

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1145		mg/Kg		115	70 - 130	
Toluene	0.100	0.1146		mg/Kg		115	70 - 130	
Ethylbenzene	0.100	0.1107		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

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

Lab Sample ID: LCS 880-56654/1-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA** Prep Batch: 56654 **Analysis Batch: 56649**

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0 100 0.1095 mg/Kg 110 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 106 70 - 130 1,4-Difluorobenzene (Surr) 91 70 - 130

Lab Sample ID: LCSD 880-56654/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 56649

Prep Batch: 56654 Spike LCSD LCSD %Rec **RPD** RPD Added Result Qualifier Limits Limit Analyte Unit D %Rec Benzene 0.100 0.1259 mg/Kg 126 70 - 130 9 35

Toluene 0.100 0.1228 mg/Kg 123 70 - 130 7 35 Ethylbenzene 0.100 0.1200 mg/Kg 120 70 - 130 35 8 m-Xylene & p-Xylene 0.200 0.2354 118 70 - 130 35 mg/Kg o-Xylene 0.100 0.1232 mg/Kg 123 70 - 130 12

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 120 70 - 130 1,4-Difluorobenzene (Surr) 90 70 - 130

Lab Sample ID: 880-30176-A-3-B MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 56649 Prep Batch: 56654

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.1246		mg/Kg		125	70 - 130	
Toluene	0.00264		0.0996	0.1189		mg/Kg		117	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.1137		mg/Kg		114	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2242		mg/Kg		113	70 - 130	
o-Xylene	< 0.00200	U	0.0996	0.1072		mg/Kg		108	70 - 130	

MS MS %Recovery Qualifier Limits S1+ 70 - 130 4-Bromofluorobenzene (Surr) 136 1,4-Difluorobenzene (Surr) 70 - 130 98

Lab Sample ID: 880-30176-A-3-C MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 56649									Prep E	Batch: 8	56654
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.1120		mg/Kg		113	70 - 130	11	35
Toluene	0.00264		0.0994	0.1080		mg/Kg		106	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0994	0.09685		mg/Kg		97	70 - 130	16	35
m-Xylene & p-Xylene	< 0.00399	U	0.199	0.1886		mg/Kg		95	70 - 130	17	35
o-Xylene	<0.00200	U	0.0994	0.1028		mg/Kg		103	70 - 130	4	35

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Prep Type: Total/NA

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

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

Lab Sample ID: 880-30176-A-3-C MSD

Matrix: Solid

Analysis Batch: 56649

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56654

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

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

Lab Sample ID: MB 880-56504/1-A

Matrix: Solid

Analysis Batch: 56452

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56504

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		06/28/23 13:54	06/28/23 20:49	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		06/28/23 13:54	06/28/23 20:49	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/23 13:54	06/28/23 20:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/28/23 13:54	06/28/23 20:49	1
o-Terphenyl	105		70 - 130	06/28/23 13:54	06/28/23 20:49	1

Lab Sample ID: LCS 880-56504/2-A

Matrix: Solid

Analysis Batch: 56452

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 56504

	Spik	e LCS	LCS			%Rec	
Analyte	Adde	d Result	Qualifier	Unit	D %Rec	Limits	
Gasoline Range Organics	100	913.1		mg/Kg	91	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	100	0 1022		mg/Kg	102	70 - 130	
C10-C28)							

	LUS LUS	
Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	101	70 - 130

100 100

Lab Sample ID: LCSD 880-56504/3-A

Matrix: Solid

Analysis Batch: 56452

Client Sample	ID:	Lab	Contr	ol	Sample	Dup

Prep Type: Total/NA Prep Batch: 56504

Allalysis Batoli. 00402							1 TOP E	outon. c	70004
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	950.2		mg/Kg		95	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1097		mg/Kg		110	70 - 130	7	20
040,000)									

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Client Sample ID: Matrix Spike

70 - 130

85

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Total/NA

mg/Kg

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

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

Lab Sample ID: 890-4871-A-5-C MS

<49.9 U

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 56452** Prep Batch: 56504 Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added %Rec Limits Analyte Unit Gasoline Range Organics <49.9 U 996 888.9 mg/Kg 88 70 - 130 (GRO)-C6-C10

842.6

996

Diesel Range Organics (Over C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 90 70 - 130 o-Terphenyl 91

Lab Sample ID: 890-4871-A-5-D MSD

Matrix: Solid

Analysis Batch: 56452

Prep Batch: 56504 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec Gasoline Range Organics <49.9 U 996 916.5 90 70 - 130 3 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 881.3 mg/Kg 88 70 - 130 4 20

C10-C28)

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56484/1-A

Matrix: Solid

Analysis Batch: 56510

MB MB

Analyte Result Qualifier

RL **MDL** Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 06/28/23 15:31

Lab Sample ID: LCS 880-56484/2-A

Matrix: Solid

Analysis Batch: 56510

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 256.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-56484/3-A

Matrix: Solid

Analysis Batch: 56510

LCSD LCSD **RPD** Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit 250 Chloride 260.9 mg/Kg 104 90 - 110 20

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4861-A-5-B MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 56510

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	66.0		248	288.7		mg/Kg		90	90 - 110	

Lab Sample ID: 890-4861-A-5-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 56510

	Sample	Sample	Spike	MSD	MSD				%Rec		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	66.0		248	289.5		mg/Kg		90	90 - 110	0	20	

Lab Sample ID: MB 880-56951/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57012

MB MB

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/05/23 13:35	1

Lab Sample ID: LCS 880-56951/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 57012

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	240.3		mg/Kg	_	96	90 - 110	

Lab Sample ID: LCSD 880-56951/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57012

	Spike	LCSD	LCOD				/orec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	240.4		mg/Kg		96	90 - 110	0	20	

Lab Sample ID: 880-30227-A-2-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 57012

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	105		248	347.4		ma/Ka	_	98	90 - 110	

Lab Sample ID: 880-30227-A-2-F MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57012

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/ indigolo Batolii or or z											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	105		248	347.8		mg/Kg		98	90 - 110	0	20

Client: Ensolum
Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4863-1 SDG: 03D2024191

GC VOA

Prep Batch: 56543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-1	SW01	Total/NA	Solid	5035	
890-4863-2	SW02	Total/NA	Solid	5035	
890-4863-3	SW03	Total/NA	Solid	5035	
MB 880-56543/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56543/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56543/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30148-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
880-30148-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-1	SW01	Total/NA	Solid	8021B	56543
890-4863-2	SW02	Total/NA	Solid	8021B	56543
890-4863-3	SW03	Total/NA	Solid	8021B	56543
MB 880-56543/5-A	Method Blank	Total/NA	Solid	8021B	56543
LCS 880-56543/1-A	Lab Control Sample	Total/NA	Solid	8021B	56543
LCSD 880-56543/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56543
880-30148-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	56543
880-30148-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56543

Analysis Batch: 56649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-4	SW04	Total/NA	Solid	8021B	56654
MB 880-56654/5-A	Method Blank	Total/NA	Solid	8021B	56654
LCS 880-56654/1-A	Lab Control Sample	Total/NA	Solid	8021B	56654
LCSD 880-56654/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56654
880-30176-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	56654
880-30176-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56654

Prep Batch: 56654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-4	SW04	Total/NA	Solid	5035	<u> </u>
MB 880-56654/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56654/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56654/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30176-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
880-30176-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56727

Lab Sample ID 890-4863-1	Client Sample ID SW01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-4863-2	SW02	Total/NA	Solid	Total BTEX	
890-4863-3	SW03	Total/NA	Solid	Total BTEX	
890-4863-4	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-1	SW01	Total/NA	Solid	8015B NM	56504
890-4863-2	SW02	Total/NA	Solid	8015B NM	56504

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Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

GC Semi VOA (Continued)

Analysis Batch: 56452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-3	SW03	Total/NA	Solid	8015B NM	56504
890-4863-4	SW04	Total/NA	Solid	8015B NM	56504
MB 880-56504/1-A	Method Blank	Total/NA	Solid	8015B NM	56504
LCS 880-56504/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56504
LCSD 880-56504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56504
890-4871-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	56504
890-4871-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56504

Prep Batch: 56504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-1	SW01	Total/NA	Solid	8015NM Prep	
890-4863-2	SW02	Total/NA	Solid	8015NM Prep	
890-4863-3	SW03	Total/NA	Solid	8015NM Prep	
890-4863-4	SW04	Total/NA	Solid	8015NM Prep	
MB 880-56504/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56504/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4871-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4871-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56555

Lab Sample ID 890-4863-1	Client Sample ID SW01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-4863-2	SW02	Total/NA	Solid	8015 NM	
890-4863-3	SW03	Total/NA	Solid	8015 NM	
890-4863-4	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-1	SW01	Soluble	Solid	DI Leach	
890-4863-2	SW02	Soluble	Solid	DI Leach	
890-4863-3	SW03	Soluble	Solid	DI Leach	
MB 880-56484/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56484/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56484/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4861-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4861-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 56510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-1	SW01	Soluble	Solid	300.0	56484
890-4863-2	SW02	Soluble	Solid	300.0	56484
890-4863-3	SW03	Soluble	Solid	300.0	56484
MB 880-56484/1-A	Method Blank	Soluble	Solid	300.0	56484
LCS 880-56484/2-A	Lab Control Sample	Soluble	Solid	300.0	56484
LCSD 880-56484/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56484
890-4861-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	56484
890-4861-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	56484

Client: Ensolum Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4863-1 SDG: 03D2024191

HPLC/IC

Leach Batch: 56951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-4	SW04	Soluble	Solid	DI Leach	
MB 880-56951/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56951/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56951/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30227-A-2-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-30227-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 57012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4863-4	SW04	Soluble	Solid	300.0	56951
MB 880-56951/1-A	Method Blank	Soluble	Solid	300.0	56951
LCS 880-56951/2-A	Lab Control Sample	Soluble	Solid	300.0	56951
LCSD 880-56951/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56951
880-30227-A-2-E MS	Matrix Spike	Soluble	Solid	300.0	56951
880-30227-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	56951

Client: Ensolum Job ID: 890-4863-1 Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Client Sample ID: SW01 Lab Sample ID: 890-4863-1

Date Collected: 06/26/23 09:15 Matrix: Solid Date Received: 06/26/23 14:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56543	06/29/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56598	06/29/23 19:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56727	06/30/23 15:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			56555	06/29/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56504	06/28/23 13:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56452	06/29/23 05:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56484	06/28/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56510	06/28/23 16:07	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4863-2 Date Collected: 06/26/23 09:25 **Matrix: Solid**

Date Received: 06/26/23 14:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56543	06/29/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56598	06/29/23 19:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56727	06/30/23 15:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			56555	06/29/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56504	06/28/23 13:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56452	06/29/23 05:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56484	06/28/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56510	06/28/23 16:12	CH	EET MII

Client Sample ID: SW03 Lab Sample ID: 890-4863-3 Date Collected: 06/26/23 09:45 Matrix: Solid

Date Received: 06/26/23 14:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56543	06/29/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56598	06/29/23 20:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56727	06/30/23 15:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			56555	06/29/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56504	06/28/23 13:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56452	06/29/23 05:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56484	06/28/23 09:55	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56510	06/28/23 16:17	CH	EET MID

Client Sample ID: SW04 Lab Sample ID: 890-4863-4 Date Collected: 06/26/23 09:55 Matrix: Solid

Date Received: 06/26/23 14:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56654	06/30/23 08:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56649	06/30/23 22:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56727	07/03/23 01:44	SM	EET MID

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Lab Chronicle

Client: Ensolum

Project/Site: Stratojet 31 State Com 8H

SDG: 03D2024191

Client Sample ID: SW04

Date Collected: 06/26/23 09:55 Date Received: 06/26/23 14:35 Lab Sample ID: 890-4863-4

Matrix: Solid

	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			56555	06/29/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56504	06/28/23 13:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56452	06/29/23 06:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56951	07/05/23 11:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	57012	07/05/23 16:10	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4863-1
Project/Site: Stratojet 31 State Com 8H SDG: 03D2024191

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NI	ELAP	06-30-24	
The following analyte the agency does not o	•	ort, but the laboratory is r	ot certified by the governing authority.	This list may include analytes for which
5 ,				
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4863-1

SDG: 03D2024191

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Stratojet 31 State Com 8H

Job ID: 890-4863-1

SDG: 03D2024191

Depth		
0 - 4		
0 - 4		

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4863-1	SW01	Solid	06/26/23 09:15	06/26/23 14:35	0 - 4
890-4863-2	SW02	Solid	06/26/23 09:25	06/26/23 14:35	0 - 4
890-4863-3	SW03	Solid	06/26/23 09:45	06/26/23 14:35	0 - 4
890-4863-4	SW04	Solid	06/26/23 09:55	06/26/23 14:35	0 - 4

Received by OCD: 7/20/2023 10:54:06 AM

Environment Testing Xenco:

Chain of Custody

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

Manula 4	O-d	Ma.	
Work (Oraer	NO:	

Project Manager:	Hadli	e Green				Bill to: (i	different	.)	Kalei	Jennin	gs									ler Comi		
Company Name:	Enso	lum, LLC				Compar	y Name	:	Ensol	um, LL	.c					Program	UST/PS	ST [] F	RP B	rownfield	is 🗌 RRC	Superfund [
Address:	601 1	N Marienfo	eld St St	uite 400		Address	:		601 N	Marie	nfeld S	t Suite 4	00			State of						_
City, State ZIP:	Midla	nd, TX 79	9701			City, Sta	te ZIP:		Midla	nd, TX	79701					Reporting: Level II						P Level IV
Phone:	432-	557-8895			Email:	hgreen	@enso	lum.c	om, kj	enning	gs@er	solum.c	com									er:
Project Name:	5	Stratojet 3	1 State	Com 8H	Turr	Around							ANA	ALYSIS	REC	QUEST Preservative Co.					ative Codes	
Project Number:			0202419		☑ Routine	Rus	1	Pres. Code												Non	e: NO	DI Water: H₂C
Project Location:		32.524	18,-103.5	5029	Due Date:															Coo	l: Cool	MeOH: Me
Sampler's Name:		Peter	Van Pat	ten	TAT starts th																.: HC	HNO ₃ : HN
PO #:					the lab, if red	eived by	1:30pm	5					1111111	1119519951911	1111111	1881 1188 1188 1 8	14 1811 181		4		H ₂ S0 ₄ : H ₂ NaOH: N	
SAMPLE RECE	PT	Temp !	Blank:	Yes No	Wet Ice:	Yes	No	net	300.0)										"	O ₄ : HP		
Samples Received I		Yes		Thermometer		VME	FO	Parai	300												ISO₄: NAE	
Cooler Custody Sea			V 1	Correction Fa		5-	. 2	4	(EPA:				111111	landan libi		THE PLANE OF THE PROPERTY OF T		1	S ₂ O ₃ : NaS			
Sample Custody Se	als:	Yes No		Temperature		3.	4			_	ਿ		890-	4863 Cha	ain o	of Custody			-		Acetate+Na	aOH: Zn bic Acid: SAPC
Total Containers:				Corrected Te	mperature:	3	4		ORIDES	(8015)	(802		1	1 1		1 1	1	1		Nac	MASCOIL	DIC ACIO. SAFC
Sample Ide	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	1 3	тРН (8	BTEX (8021)										Sample	Comments
SW	01		Soil	6/26/2023	915	0'-4'	Comp	1	х	х	х											
SW	02		Soil	6/26/2023	925	0'-4'	Comp	1	x	×	х											
SW	03		Soil	6/26/2023	945	0'-4'	Comp	1	х	х	х							-				
SW	04		Soil	6/26/2023	955	0'-4'	Comp	1	x	×	х							-	-			
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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Racharate	Loe (M)	6.26.23148	3		
3	V		4		
5			6		Revised Date 08/25/2020 Rev. 202

Eurofins Carlsbad

Phone. 575-988-3199 Fax 575-988-3199

1089 N Canal St. Carlsbad, NM 88220

Chain of Custody Record



👶 eurofins

Environment Testing

7/6/2023 (Rev. 1)

Page 26 of 28

Released to Imaging: 10/13/2023 2:57:56 PM

Ver 06/08/2021

Client Information (Sub Contract Lab)	Sampler: Lab I									C	Carrier Tracking No(s).						COC No:				
Client Information (Sub Contract Lab)	Phone:			Kra E-M	amer,	Jessi	ca						<u> </u>	-40					890-1346 1		
Shipping/Receiving	, none.					a Kramer@et.eurofinsus.com						of Orig Mexi					Page 1 of 1				
Company							ons Rec		(See n	ote):						*****			Job #·		
Eurofins Environment Testing South Centr Address	Due Date Requeste	.d			NE	LAP -	Texa	S										_	890-4863-1		
1211 W Florida Ave	6/30/2023	ıu				Analysis Re						Rea	Jesi	ted					Preservation Code	∍s M Hexane	
City:	TAT Requested (da	ys):					Т	T	Т					T	T		T		A - HCL B NaOH	N None	
Midland State Zip:	į								-				ļ	- 1		- [1		C - Zn Acetate	O AsNaO2 P Na2O4S	
TX, 79701								Ŧ	1	1									D Nitric Acid E NaHSO4	Q Na2SO3	
Phone:	PO# ⁻	~		***	11			3				- 1		l					F MeOH G Amchlor	R Na2S2O3 S H2SO4	
432-704-5440(Tel) Email	WO#:				ᆸ			8		흥						ŀ			H Ascorbic Acid	T TSP Dodecahydrate U Acetone	
cmaii	WO#:					al ≀	á	E		Chloride		- 1		İ					lice JDIWater	V MCAA	
Project Name:	Project #:					ا ج	ā	E E	1	욹			- 1	}	1	- 1	-	167	K EDTA	W pH 4-5 Y Trizma	
Stratojet 31 State Com 8H	89000145					8 5	2	တ		Ě								ığı.	L EDA	Z other (specify)	
Site:	SSOW#:				Samp	Perform MS/MSD (Yes or No)	- - - - - -	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH		300_ORGFM_28D/DI_LEACH								of cor	Other [,]		
			Sample	Matrix	ě	8	Total_BTEX_GCV	8/₩	8015MOD_Calc	8 5								ž			
			Туре	(W≃water S≃solid.	뽎	E	E E	8	8	5				l	Į	Į.		Number			
On the Interest Construction of the Indian		Sample	(C=Comp,	O=waste/oil,	밁	£ 3	1 1	15M	16M	١٥				ı	İ			Total			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) B	NO. CONTRACTOR OF THE PARTY OF	900000 None2		3 2	&	&	8	- Telegraph	isternal (- No.	in Section 1	No one of the	erandi fans	162.28 100.cc	¥,	Special Ins	structions/Note:	
000000000000000000000000000000000000000		09 15	Preservati		-14	Х_	<u> </u>	<u>. a dida</u>			· Last	L.J			. s.	<u>~~</u>		$\bot\!\!\!\!/\!$	Land the second		
SW01 (890-4863-1)	6/26/23	Mountain		Solid			K X	Х	Х	Х								1			
SW02 (890-4863-2)	6/26/23	09 25 Mountain		Solid			x x	Х	X	х								1			
SW03 (890-4863-3)	6/26/23	09 45 Mountain		Solid	Ш		x x	х	х	х								1			
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Note Since laboratory accreditations are subject to change Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed about the contract of the state of Origin listed about the contract of the state of the s	Testing South Centr	al, LLC places	the ownership o	f method a	nalyte &	accre	ditation	comp	liance	upon o	ur sul	ocontra	ct lab	oratori	es. T	his sam	nple sh	ipment	t is forwarded under ch	ain-of-custody If the	
accreditation status should be brought to Eurofins Environment Testing South Cer	tral LLC attention in	mediately If a	all requested acc	reditations	are cum	ent to	ck to th date, re	e Euro tum th	mns ≝r ne signo	od Cha	in of (esting Custod	Soutr y atte	n Centr sting to	aı LL Said	compli:	atory o	or other Eurofi	instructions will be pro ins Environment Testir	ovided Any changes to ng South Central LLC	
Possible Hazard Identification				······································		Samı	le Dis	spos	al (A	fee n	nay .	be as	ses	sed in	san	nples			ed longer than 1		
Unconfirmed] Retu	rn To	Clier	nt		\Box_{D_i}	spos	sal By	/ Lab			ι	hive For	Months	
Deliverable Requested I, II III IV, Other (specify)	Primary Deliver	able Rank 2	2		ŀ	Speci	al Inst	truction	ons/C	C Re	quire	emen	s								
Empty Kit Relinquished by		Date			Tim			j)	L					Metho	d of S	hipmen	t:				
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Relinquished by	Date/Time.		C	Company		R	coived	By.	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>				-	1	Date/Tir	m ¢ :		1	Company	
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Custody Seals Intact: Custody Seal No Δ Yes Δ No	ı		L			C	ooler Te	empera	ature(s) °C an	d Oth	er Ren	arks	J	3	15	۷. ز	<u>ر</u>		l	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4863-1 SDG Number: 03D2024191

Login Number: 4863 **List Source: Eurofins Carlsbad**

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4863-1 SDG Number: 03D2024191

Login Number: 4863 **List Source: Eurofins Midland** List Creation: 06/28/23 10:43 AM List Number: 2

Creator: Kramer, Jessica

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



July 13, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: STRATOJET 31

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 9:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023
Reported: 07/13/2023

Project Name: STRATOJET 31
Project Number: 03D2024191
Project Location: LEA CO NM

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 4' (H233543-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	QM-07
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	QM-07
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	122 :	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



07/12/2023

Soil

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date:
Reported: 07/13/2023 Sampling Type:

Project Name: STRATOJET 31 Sampling Condition: Cool & Intact
Project Number: 03D2024191 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FS 02 4' (H233543-02)

ecovery True Value QC RPD Qualifie
2.0 2.00 6.95
5.1 2.00 7.35
6.3 2.00 7.74
5.7 6.00 8.47
ecovery True Value QC RPD Qualifie
.08 400 3.64
ecovery True Value QC RPD Qualifie
.03 200 5.13
.11 200 6.09

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported:

07/13/2023 STRATOJET 31 03D2024191

LEA CO NM

Sampling Date: Sampling Type:

Sample Received By:

07/12/2023

Soil Sampling Condition:

Cool & Intact Tamara Oldaker

Sample ID: FS 03 4' (H233543-03)

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported: 07/13/2023

Project Name: STRATOJET 31
Project Number: 03D2024191
Project Location: LEA CO NM

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 4' (H233543-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

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07/12/2023

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported: 07/13/2023

ma/ka

Reported:07/13/2023Sampling Type:SoilProject Name:STRATOJET 31Sampling Condition:Cool & IntactProject Number:03D2024191Sample Received By:Tamara Oldaker

Analyzed By: MC

Sampling Date:

Project Location: LEA CO NM

Sample ID: FS 05 4' (H233543-05)

RTFY 8021R

Analyte	Result								
, ,	resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celeg D. Freene



07/12/2023

Soil

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date:
Reported: 07/13/2023 Sampling Type:

Project Name: STRATOJET 31 Sampling Condition: Cool & Intact
Project Number: 03D2024191 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FS 06 4' (H233543-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: STRATOJET 31 Sampling Condition: Cool & Intact
Project Number: 03D2024191 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FS 07 4' (H233543-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported: 07/13/2023

Project Name: STRATOJET 31 Project Number: 03D2024191 Project Location: LEA CO NM

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 08 4' (H233543-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported: 07/13/2023

Project Name: STRATOJET 31 Project Number: 03D2024191

Project Location: LEA CO NM Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 09 4' (H233543-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	125 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

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07/12/2023

Soil

Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date:
Reported: 07/13/2023 Sampling Type:

Project Name: STRATOJET 31 Sampling Condition: Cool & Intact
Project Number: 03D2024191 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FS 10 4' (H233543-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID 100 % 71.5-13		4							
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	205	103	200	5.13	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	222	111	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

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Notes and Definitions

S-04	he surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J-0 -1	THE SUITOURLE TECOVERY FOR UTILS SATING IS OUTSIDE OF ESTADIISTICA COLLEGE HITHES ARE TO A SATING HIGHEN CHECK.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 13 of 13



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Company Name:						Т	BILL TO						AN	ALYS	IS R	EQUE	51					
Section in the Section Control of	Liidolain, LLO							- 1	P.O. #: 0302024191														
Project Manager	Hadlie Gi	CEVI			_	_			Company: Ensolum					1				1					
Address: 601 l	N. Marienfeld St. STE 4	100																					
City: Midland		State: TX	Zip	7	970	1			Attn: Hadlie Green													- 1	
Phone #: 432-557-9995 Fax #:					Add	dress:	60	N W	crunhu										- 1				
Project Owner: EnsoluM					City	: M	Id	land				S											
Project Name: Stratojet 31						Sta	te: TX		Zip: 79	701			5										
Project Location: Lea Co. NM						Pho	one #:	43	125574	1895		_											
	Hadlie Gra							_	Fax		-	0.4	N INC	V	200	W							
FOR LAB USE ONLY	1			П	_	MA	(TRI)	(PRESE	RV.	SAME	LING	200	ã	0							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	PH 8	DIEX	CHLOVENDE							
1	FSOI	4	C	1						X		7/12/23	0700		-	1	_	-	+	+	+	+	
2	FSOZ	4	1	1		X				X			2010			+++	_	+	+	+	+-	+	
2	F503	4	11	П		2				I X			0704	1/	1	\square	-	-	+	+	+	+	
11	FSOY	4	1							X			0706		1	\square	-	+	_	_	_	+	-
7	FSOS	4				\rightarrow				X			0706		1	+H	_	_	+	+	+	+	
7	F506	4		17		\rangle				X.			0710		\Box	+H	_	_	+	+	+-	+	
5	FSO7	4		П			X.			X			2110	11	\Box	++	_	+	+	+	+	\vdash	
∀	F508	4				>				X			0714	\perp	\Box	+		-	-	-	+	+	
9	FS09	4				>				X			0716		\sqcup		_	_	+	_	_	+-	
10		4	V	V		7				1 1/2	4	V	0718	V	V	W							

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service.	In no event shall Cardilla be hable for alcodulum of dollar		a start assessment of whother such	claim is based upon any of the	se above stated reas	ons or otherwise
official	or successors arising out of or related to the performance	e of services hereunder by t	Cardinal, regardless of whether south	Cidilli is conce as a second		Verbal Res
DITRIBUSCO	Ol Sociologica statutal	D. L.	Bossiyod By	//	1	verbal nes

affiliates or successors arising out of or related to the per Relinquished By:	Date: 7-/2-73 Received Time: 7-/2-73	ved By:	Verbal Result: Yes No Add'i Phone #: All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	Date: Recei	ved By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5, 9 Corrected Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials) Ves Yes No No	Turnaround Time: Standard Rush Scool Intact Observed Temp. °C Thermometer ID #113 Correction Factor OSC No No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



APPENDIX D

NMOCD Notifications

 From:
 Buchanan, Michael, EMNRD

 To:
 Hadlie Green; Enviro, OCD, EMNRD

 Cc:
 Kalei Jennings; Peter Van Patten

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 6/5/2023)

Date: Friday, June 2, 2023 3:54:30 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Received.

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.

Mike Buchanan • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Hadlie Green hgreen@ensolum.com

Sent: Friday, June 2, 2023 9:18 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 6/5/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of June 5, 2023.

- Vast State 21H / NAPP2313140440
 - Sampling Date: 6/9/2023 @ 10:00 AM MST
- Stratojet 31 State Com 8H / NAPP2314235805
 - Sampling Date: 6/8/2023 @ 10:00 AM MST

Thank you,





Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 6/5/2023)

Date: Friday, June 9, 2023 9:22:08 AM

Attachments: <u>image006.png</u>

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com>

Sent: Thursday, June 8, 2023 9:15 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 6/5/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of June 12, 2023.

- Stratojet 31 State Com 8H / NAPP2314235805
 - Sampling Date: 6/12/2023 @ 10:00 AM MST

Thank you,



Hadlie Green

Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: <u>Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 6/26/2023)

Date: Wednesday, June 21, 2023 2:44:17 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com> Sent: Wednesday, June 21, 2023 7:38 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 6/26/2023)

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

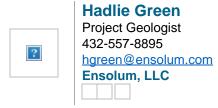
All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of June 26, 2023.

- Stratojet 31 State Com 8H / NAPP2314235805
 - Sampling Date: 6/26/2023 @ 10:00 AM MST
- Buck Federal CTB / NAPP2315731307

• Sampling Date: 6/29/2023 @ 10:00 AM MST

Thank you,





APPENDIX E

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party			OGRID	OGRID						
Contact Nam	e			Contact T	Contact Telephone						
Contact emai	1			Incident #	Incident # (assigned by OCD)						
Contact mail	ing address										
			Location	of Release S	ource						
Latitude			(NAD 83 in dec	Longitude imal degrees to 5 decir	mal places)						
Site Name				Site Type							
Date Release	Discovered			API# (if app	plicable)						
Unit Letter	Section	Township	Range	Cour	nty						
Crude Oil	Material	Federal Tr	Nature and	Volume of	justification for t	he volumes provided below) covered (bbls)					
Produced		Volume Release				covered (bbls)					
Troduced	Water		ion of dissolved cl	nloride in the		No					
Condensa	te	Volume Released	d (bbls)		Volume Rec	covered (bbls)					
☐ Natural G	as	Volume Released	d (Mcf)		Volume Rec	covered (Mcf)					
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/We	ight Recovered (provide units)					
Cause of Rela	ease										

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Page 2 Oil Conservation Division

	PageH04eof 1)	10
Incident ID		
District RP		
Facility ID		
A1' 4' ID		

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the re	sponsible party consider this a major release?								
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 immed	liately unless they could create a safety hazard that would result in injury								
The source of the rele	ease has been stopped.									
☐ The impacted area ha	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 re	ecoverable materials have been removed	d and managed appropriately.								
If all the actions described	d above have <u>not</u> been undertaken, expl	ain why:								
has begun, please attach	a narrative of actions to date. If remed	ce remediation immediately after discovery of a release. If remediation lial efforts have been successfully completed or if the release occurred C), please attach all information needed for closure evaluation.								
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release ment. The acceptance of a C-141 report by tate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger he OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In or of responsibility for compliance with any other federal, state, or local laws								
Printed Name	_	Title:								
Signature:	tane Japanger	Date:								
email:		Telephone:								
OCD Only										
Received by: Michael	Buchanan	Date:								

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estir Contamir Soil, uncompa 25% (ye	ted, Current Rule of Thumb - RMR Handover Volume,
Rectangle A	20.0	5.0	1.0	Off-Pad∨	15.02%	1.48	0.22	0.39	
Rectangle B				On-PadY	10.50%	0.00	0.00	0.00	
Rectangle C			3	On-Pad~	10.50%	0.00	0.00	0.00	Ţ
Rectangle D		8	5. 5	~		0.00		0.00	
Rectangle E				~		0.00		0.00	750
Rectangle F		3 X		~		0.00		0.00	130
Rectangle G				~		0.00		0.00	
Rectangle H				~		0.00		0.00	
Rectangle I				~		0.00		0.00	
Released to Imaging: 10/1	3/2023/2	57:56 PM		~		0.00		0.00	
3 -0					Total Su	bsurface Volume Released:	0.22	0.39	BU

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 219366

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	219366
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date	
michael.buchanan	None	5/23/2023	

	Page 107 of 1.	10
Incident ID	NAPP2314235805	
District RP		
Facility ID	fAPP2204037515	
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>50</u> (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
 ⊠ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ∑ Field data 			
☐ Data table of soil contaminant concentration data ☐ Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			

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.

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

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2314235805	5		

Incident ID	NAPP2314235805
District RP	
Facility ID	fAPP2204037515
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jacob Laird

Title: Environmental Engineer

Signature: Jacob Laird

Date: 7/18/2023

email: Jacob.Laird@ConocoPhillips.com

Telephone: 575-703-5482

OCD Only

Received by: Shelly Wells Date: 7/20/2023

Page 109 of 110

Incident ID	NAPP2314235805
District RP	
Facility ID	fAPP2204037515
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following ite	ems 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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ 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 may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Environmental Engineer Date: 7/18/2023
OCD Only	
Received by: Shelly Wells	Date: <u>7/20/2023</u>
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by: Nelson Velez Printed Name: Nelson Velez	Date: 10/13/2023
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv

District I
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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 242581

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	242581
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/13/2023