

April 4, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Burtin Flats Line

Incident Number NAPP2502458832

Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of Hydro Environmental (Hydro) and Solaris Water Midstream, LLC (Solaris), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Burtin Flats Line (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 analytical results from the soil sampling events, Solaris is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2502458832.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit I, Section 11, Township 20 South, Range 28 East, in Eddy County, New Mexico. (32.58607, -104.14346) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 10, 2025, human error resulted in the release of 65 barrels (bbls) of produced water. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 55 bbls of produced water were recovered. Solaris reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on January 27, 2025. The release was assigned Incident Number NAPP2502458832.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table 1, 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 below and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is USGS well 323538104070601, located approximately 3 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 41 feet bgs, measured on April 27, 1984, and a total depth of 171 feet bgs. Ground surface elevation at the groundwater well location is 3,248 feet above mean sea level (amsl), which is approximately 15 feet lower in elevation than the Site. The well

Solaris Water Midstream, LLC Closure Request Burtin Flats Line



record and log are presented in Appendix A, and all wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry seasonal wash, located approximately 3,400 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total Petroleum Hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between February 12 and February 21, 2025, Ensolum personnel visitied the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary soil samples (SS01 through SS04) were collected around the release extent from a depth of 0.5 feet bgs, to assess the lateral extent of the release. Additionally, three delineation borehole soil samples (BH01 through BH03) were advanced into the soil via backhoe to maximum depths ranging from 0.5 to 4 feet bgs within the release extent, to assess the vertical extent of the release. Discrete delineation soil samples were collected from each borehole at depths ranging from 0.5-feet bgs to 4 feet bgs. The preliminary soil samples and the borehole soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The release extent and preliminary soil sample locations, along with the borehole soil locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, and Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0 / SM4500.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples and delineation borehole samples, excavation activities were warranted.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Solaris Water Midstream, LLC Closure Request Burtin Flats Line



Upon completion of delineation activities, impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the preliminary and borehole soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using a backhoe and transport vehicle. The excavation occurred in the pasture area southwest of an injection well pad. To direct excavation activities, soil was screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 2 to 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW03 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 2 feet bgs. Composite soil samples FS01 through FS20 were collected from the floor of the excavation from depths ranging from 2-foot to 3 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.

The excavation area measured approximately 3,911 square feet. A total of approximately 297 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS04, collected around the release extent area, indicated that BTEX, TPH, and chloride concentrations were compliant with Closure Criteria and reclamation standards, successfully defining the lateral extent of the release.

Laboratory analytical results for delineation soil samples BH01 and BH03 showed TPH and chloride concentrations that exceeded Site Closure Criteria and reclamation standards at depths of 0.5 and 1 feet, and 0.5 foot bgs respectively. Laboratory analytical results for delineation soil samples BH01, BH02, and BH03, indicated that all Benzene, BTEX, TPH, and Chloride concentrations were compliant with Site Closure Criteria and reclamation standards at 2 feet, 0.5 feet, and 1 foot bgs, respectively.

Laboratory analytical results for excavation sidewall samples SW01 through SW03 and excavation floor samples FS01 through FS20, with the exception of FS15, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards. Laboratory analytical results for FS15 indicated chloride concentrations exceeded the Site Closure Criteria at 2 feet bgs, but were compliant with Closure Criteria at 3 feet bgs. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 10, 2025, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Hydro will backfill the excavation with material purchased locally and recontour the Site to match pre-

Solaris Water Midstream, LLC Closure Request Burtin Flats Line



existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture. As such, Hydro respectfully requests closure for Incident Number NAPP2502458832.

If you have any questions or comments, please contact Ms. Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Jeremy Reich Project Geologist Tacoma Morrissey Associate Principal

Mouissey

cc: Richard Coleman, Hydro Environmental

BLM

Appendices:

Figure 1 Site Receptor Map

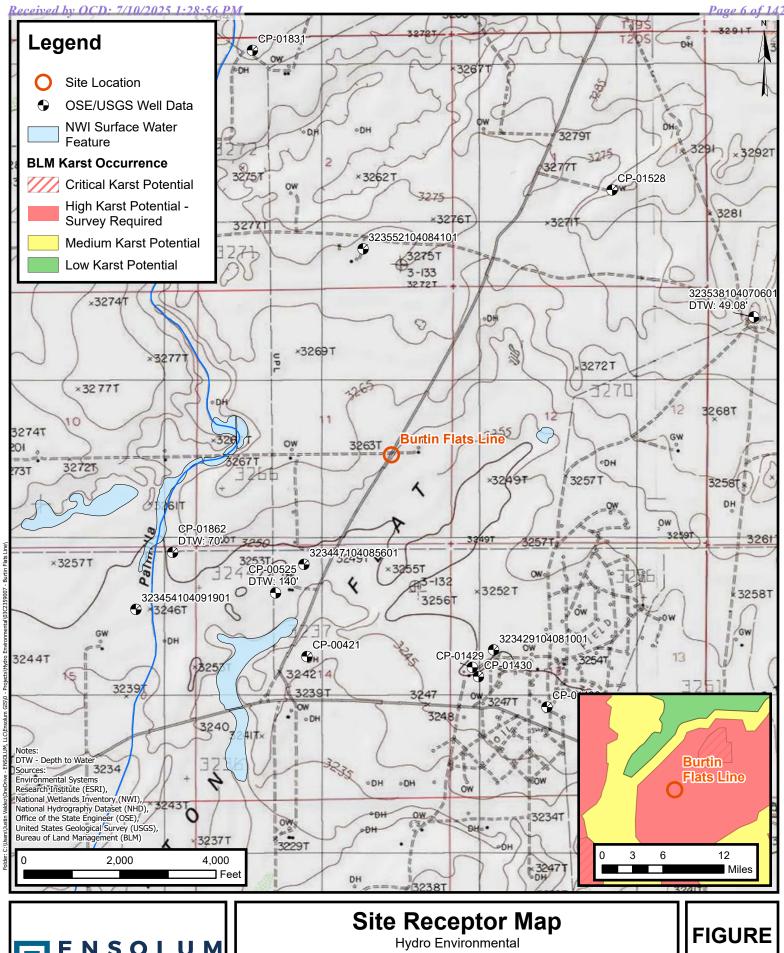
Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

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



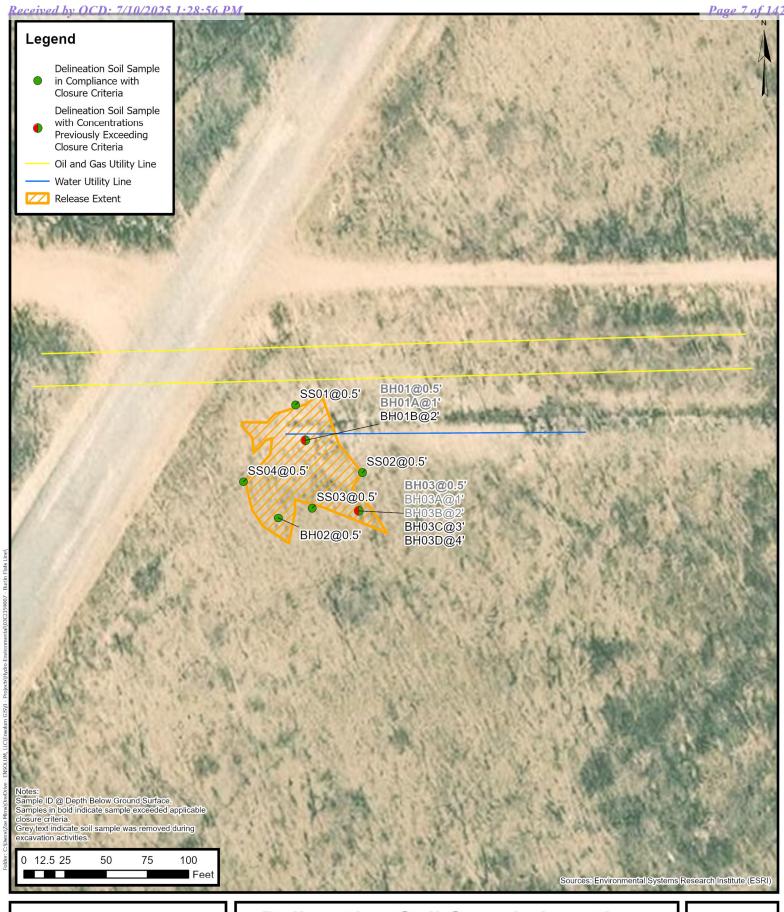
FIGURES





Burtin Flats Line Incident Number: NAPP2502458832 Unit I, Section 11, T 20S, R 28E Eddy County, New Mexico

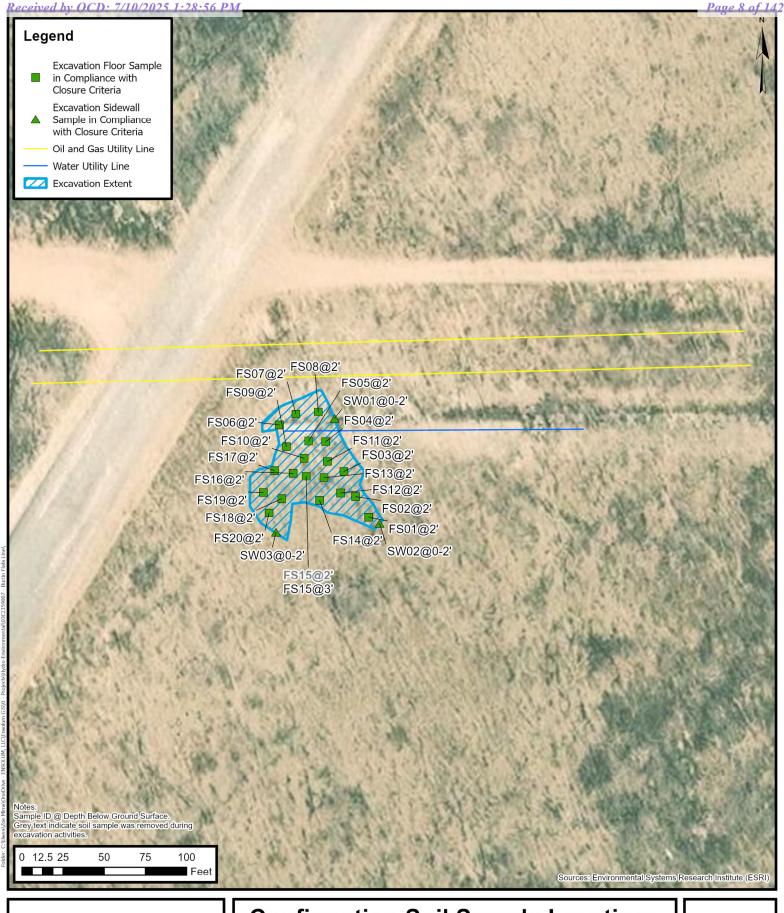
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Delineation Soil Sample Locations

Hydro-Environmental Burtin Flats Line Incident Number: NAPP2502458832 Unit I, Section 11, T 20S, R 28E Eddy County, New Mexico FIGURE 2





Confirmation Soil Sample Locations

Hydro-Environmental Burtin Flats Line Incident Number: NAPP2502458832 Unit I, Section 11, T 20S, R 28E Eddy County, New Mexico FIGURE 3



TABLES

ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Burtin Flats Line Hydro Environmental Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Preli	minary Soil Sa	mples				
SS01	2/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	2/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS03	2/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	2/21/2025	0.5	<0.050	<0.300	<10.0	18.5	<10.0	18.5	18.5	464
				Delir	neation Soil Sa	mples				
BH01	2/12/2025	0.5	<0.00200	0	<49.9	290	<49.9	290	290	11,400
BH01A	2/21/2025	4	<0.050	<0.300	<10.0	14.5	<10.0	14.5	14.5	1,570
BH01B	2/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
BH02	2/12/2025	0.5	<0.00199	0.00239	<49.8	132	<49.8	132	132	153
BH03	2/12/2025	0.5	<0.00199	0.0500	326	7,620	< 50.3	7,946	7,950	1,610
BH03A	2/21/2025	4	<0.050	<0.300	<10.0	10.7	<10.0	10.7	10.7	80.0
BH03B	2/21/2025	2	<0.050	<0.300	<10.0	22.1	<10.0	22.1	22.1	144
BH03C	2/21/2025	3	<0.050	<0.300	<10.0	50.4	<10.0	50.4	50.4	64.0
BH03D	2/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Con	firmation Soil Sa	mples				
FS01	2/28/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	192
FS02	2/28/2025	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	79.7
FS03	2/28/2025	2	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	255
FS04	2/28/2025	2	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	290
FS05	2/28/2025	2	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	179
FS06	2/28/2025	2	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	335
FS07	2/28/2025	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	404
FS08	2/28/2025	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	204
FS09	2/28/2025	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	446
FS10	2/28/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	97.6
FS11	2/28/2025	2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	20.9
FS12	2/28/2025	2	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	<50.3	177
FS13	2/28/2025	2	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	<50.1	281
FS14	2/28/2025	2	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	212

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Burtin Flats Line Hydro Environmental Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS15	2/28/2025	2	<0.00199	<0.00398	<50.5	< 50.5	< 50.5	< 50.5	< 5 0.5	614
FS15A	3/7/2025	3	< 0.00139	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	59.4
FS16	2/28/2025	2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	416
FS17	2/28/2025	2	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	206
FS18	2/28/2025	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	349
FS19	2/28/2025	2	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	253
FS20	2/28/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	307
SW01	2/28/2025	0-2	<0.00199	0.0126	<49.8	<49.8	<49.8	<49.8	<49.8	190
SW02	2/28/2025	0-2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	80.7
SW03	2/28/2025	0-2	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	58.0

Notes:

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

NMOCD: New Mexico Oil Conservation Division

 $\label{eq:BTEX:Benzene} \mbox{BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes}$

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or

reclamation requirement where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Groundwater **United States ∨** GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323538104070601

62611

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323538104070601 20S.29E.07.11234 39

Eddy County, New Mexico

Table of data Tab-congrated data

Latitude 32°35'37.7", Longitude 104°07'07.8" NAD83

Land-surface elevation 3,259 feet above NAVD88

The depth of the well is 80 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Graph of da	ıta									
teselect per	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	? Measuring agency	? Source meas
1965-12-0	7	D	62610		3204.06	NGVD29	Р	Z	2	
1965-12-0	7	D	62611		3205.60	NAVD88	Р	Z		
1965-12-0	7	D	72019	53.40			Р	Z	2	
1968-04-0	2	D	62610		3198.82	NGVD29	Р	Z	-	
1968-04-0	2	D	62611		3200.36	NAVD88	Р	Z	2	
1968-04-0	2	D	72019	58.64			Р	Z	_	
1971-02-0	5	D	62610		3207.90	NGVD29	Р	Z	2	
1971-02-0	5	D	62611		3209.44	NAVD88	Р	Z	_	
1971-02-0	5	D	72019	49.56			Р	Z	2	
1976-12-1	0	D	62610		3208.85	NGVD29	1	Z	2	
1976-12-10	0	D	62611		3210.39	NAVD88	1	Z	2	
1976-12-1	0	D	72019	48.61			1	Z	2	
1983-01-1	1	D	62610		3207.99	NGVD29	1	Z	2	
1983-01-1	1	D	62611		3209.53	NAVD88	1	Z		
1983-01-1	1	D	72019	49.47			1	Z	-	
1994-03-1	6	D	62610		3207.71	NGVD29	1	S	S	

3209.25

NAVD88

1994-03-16

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
1994-03-16		D	72019	49.75			1	S		
1999-02-24		D	62610	49.75	3208.61	NGVD29	1	S	USGS	
1999-02-24		D	62611		3210.15	NAVD88	1	S	USGS	
1999-02-24		D	72019	48.85	3210.13	NAVDOO	1	S	USGS	
2015-12-16	22·30 LITC	m	62610	10.03	3187.09	NGVD29	1	S	USGS	
2015-12-16		m	62611		3188.63	NAVD88	1	S	USGS	
2015-12-16		m	72019	70.37	3100.03		1	S	USGS	
2021-02-23	16:45 UTC	m	62610		3208.66	NGVD29	1	S	USGS	
2021-02-23	16:45 UTC	m	62611		3210.20	NAVD88	1	S	USGS	
2021-02-23	16:45 UTC	m	72019	48.80			1	S	USGS	
2022-01-11	17:35 UTC	m	62610		3208.49	NGVD29	1	S	USGS	
2022-01-11	17:35 UTC	m	62611		3210.03	NAVD88	1	S	USGS	
2022-01-11	17:35 UTC	m	72019	48.97			1	S	USGS	
2023-02-10	20:28 UTC	m	62610		3208.50	NGVD29	1	S	USGS	
2023-02-10	20:28 UTC	m	62611		3210.04	NAVD88	1	S	USGS	
2023-02-10	20:28 UTC	m	72019	48.96			1	S	USGS	
2024-02-26	20:39 UTC	m	62610		3208.61	NGVD29	1	S	USGS	
2024-02-26	20:39 UTC	m	62611		3210.15	NAVD88	1	S	USGS	
2024-02-26	20:39 UTC	m	72019	48.85			1	S	USGS	
2025-01-22	19:03 UTC	m	62610		3208.38	NGVD29	1	V	USGS	
2025-01-22	19:03 UTC	m	62611		3209.92	NAVD88	1	V	USGS	
2025-01-22	19:03 UTC	m	72019	49.08			1	V	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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-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
Help
Data Tips
Explanation of terms
Subscribe for system changes

Privacy Accessibility FOIA Policies and Notices

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

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

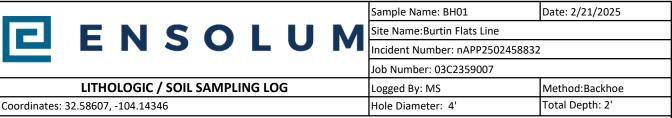
Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2025-04-04 07:51:27 EDT 0.34 0.23 nadww02





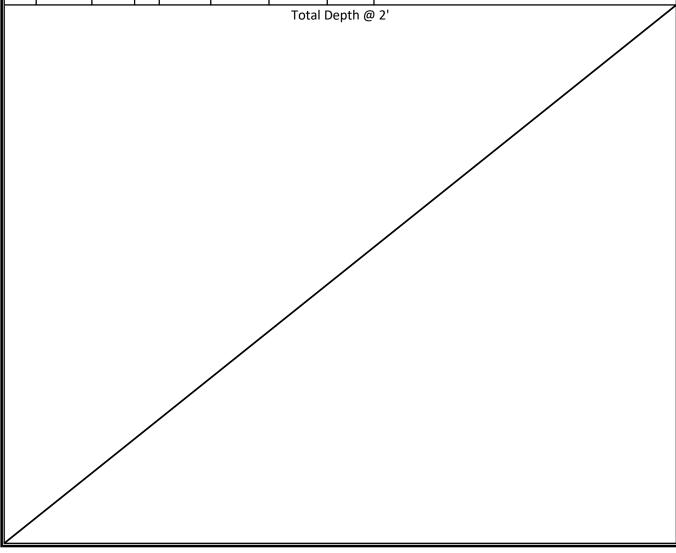
APPENDIX B

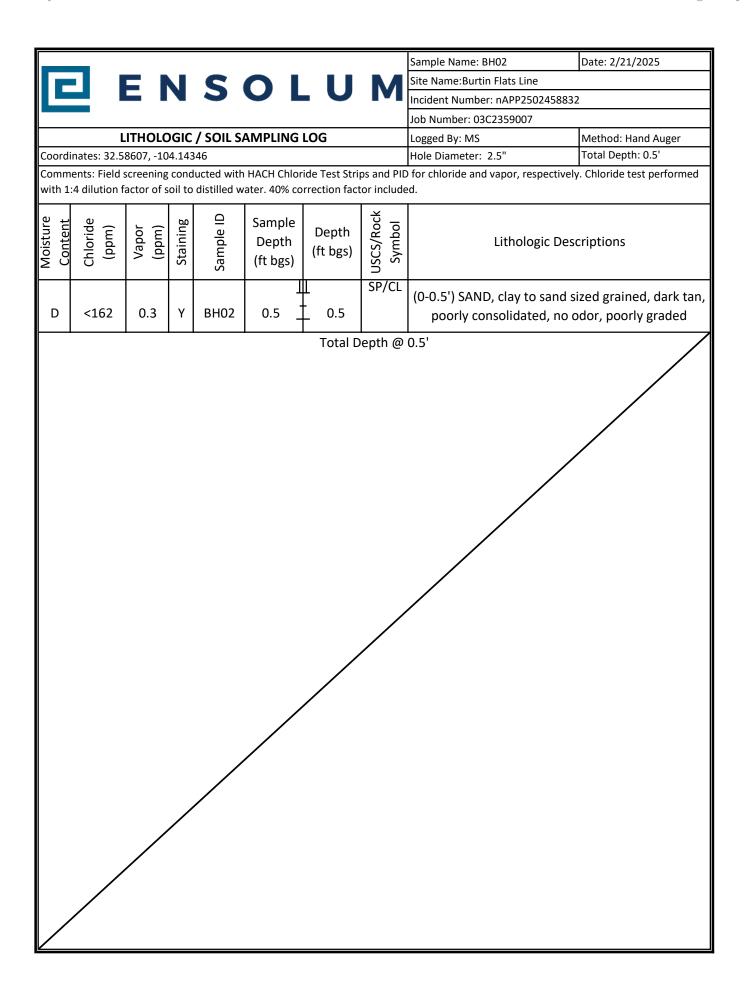
Lithologic Soil Sampling Logs



Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0	SP/CL	(0-2') SAND, clay to sand sized grained, dark
D	1288	12.9	Υ	BH01	0.5	-		tan, poorly consolidated, faint odor, poorly
D	1288	5.4	Υ	BH01A	1 _	1		graded
					- -	-		
D	224	5.1	Υ	вно1в	2 _	2		No Odor







Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						Ι ο	SP/CL	(0-4') SAND, clay to sand sized grained, dark tan,
D	1298	3	Υ	ВН04	0.5	- -		poorly consolidated, faint odor, poorly graded
D	1298	5.2	Υ	BH04A	1 _	_ 1		
D	224	7.2	Υ	вно4в	2 <u>-</u>	- - - 2 -		
D	<162	3.7	N	вно4С	3 <u>-</u> 3 <u>-</u>	- - 3 -		No Odor
D	<162	1.1	N	BH04D	4 _	- - 4		No Odor

Total Depth @ 4'



APPENDIX C

Photographic Log



Photographic Log

Hydro Environmental Burtin Flats Line Eddy County, New Mexico



SE 150 SE 150 210

3 153°SE (T) ● 32.585968, -104.143305 ±9ft ▲ 3179ft

Burtin Flais Line
02-21-2025-11-50/28 AM

Photograph: 1 Date: 2/21/2025

Description: Spill Response and Initial Activities

View: West

Photograph: 2 Date: 2/21/2025

Description: Delineation Activities

View: Southeast





Photograph: 3 Date: 2/28/2025

Description: Excavation activities

View: West

Photograph: 4 Date: 3/07/2025

Description: Backfill View: Southeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



February 24, 2025

JEREMY REICH
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: BURTIN FLATS LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/25 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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. Keine

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 JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

Project Name: BURTIN FLATS LINE
Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 0.5' (H251049-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2025	ND	416	104	400	0.00	
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	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.3	% 49.1-14	8						

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

02/24/2025 BURTIN FLATS LINE

Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 0.5' (H251049-02)

Project Name:

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/24/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported:

02/24/2025 Project Name: **BURTIN FLATS LINE**

Project Number: 03C2359007 Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.5' (H251049-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/24/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

Project Name: BURTIN FLATS LINE
Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 0.5' (H251049-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/24/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	18.5	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

Project Name: BURTIN FLATS LINE

Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 01A 1' (H251049-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	02/24/2025	ND	416	104	400	0.00	
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	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	14.5	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Sampling Date: 02/21/2025

Reported: 02/24/2025 Sampling Type: Soil

Project Name: **BURTIN FLATS LINE** Sampling Condition: Cool & Intact Project Number: 03C2359007 Sample Received By: Shalyn Rodriguez

Project Location: 32.58607-104.143416

Sample ID: BH 01B 2' (H251049-06)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/24/2025	ND	416	104	400	0.00	
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	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

BURTIN FLATS LINE

Project Name: Project Number: 03C2359007

Project Location: 32.58607-104.143416 Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: BH 03A 1' (H251049-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/24/2025	ND	416	104	400	0.00	
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	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	10.7	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

Project Name: BURTIN FLATS LINE
Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 03B 2' (H251049-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	144	16.0	02/23/2025	ND	432	108	400	0.00	
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	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	22.1	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

Project Name: BURTIN FLATS LINE
Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 03C 3' (H251049-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/23/2025	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	50.4	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	71.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.1	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM JEREMY REICH 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 02/21/2025 Reported: 02/24/2025

Project Name: BURTIN FLATS LINE
Project Number: 03C2359007

Project Location: 32.58607-104.143416

Sampling Date: 02/21/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 03D 4' (H251049-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2025	ND	2.17	109	2.00	1.99	
Toluene*	<0.050	0.050	02/21/2025	ND	2.31	116	2.00	2.46	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.36	118	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	7.07	118	6.00	4.70	
Total BTEX	<0.300	0.300	02/21/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/23/2025	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	209	105	200	0.0440	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	207	103	200	0.147	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 49.1-14	8						

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Celeg & Frence



Notes and Definitions

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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Celeg D. Freene

Relinquished By:

Time:

Received By:

REMARKS:

NAPP 250245 88-32

All Results are emailed. Please provide Email address:

□ Yes

☐ No Add'I Phone #:

DEICHE CASOLUMICOM/MSachise CASOLUMICOM/WTHOMPSONGER

Date: 3/31/35

Received By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C Corrected Temp. °C

Sample Condition
Cool Intact
PYes 1 Yes
No 1 No

(Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Observed Temp. °C
Corrected Temp. °C

Relinquished By:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories

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

	(0,0) 000-2020 1 201	010/000-2-	10				
Company Name: FASO	EUSO/MW777			BILL	BILL TO		ANALYSIS REQUEST
Project Manager: Topo My	S			P.O. #:			
Address: 중(고급	Nationa	S HWY.		Company: E/180/WM, LLC	solum, LLC		
City: Cof 15 bad	_	tate: // //	State: NM Zip: 88220	Attn: Jeremy Reich	Reich		
Phone #: 4 36	Phone #: 432 - 296-0627 Fax #:	× #:		Address:			
Project #: 030	Project #: 0362359007 Pr	Project Owner:		City:			
Project Name:	Project Name: PUG FIN Flats Line			State: Zip:	0:		
Project Location:	Project Location: 32,58607 - 104, 143416	1.14341	<i>u</i> ,	Phone #:			
Sampler Name: /	Sampler Name: Mario Sarkis			Fax #:			
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	25	
Lab I.D.	Sample I.D.			HER: ID/BASE: I/COOL HER:		BTEX TPH Worlde	
H25/049		Depth	# CO GRO WAS SOIL	OTH ACII ICE OTH	DATE TIME	6	
1	250	0,5	C <	, v	2080 SV/R	1 1 1	
7	5500	210	0, <	. <	6880	1 / /	
CJ		210	C		0836	\ \ \ \	
4	SSCH	5.0	0		0839	V V V	
S	BHC I A	-	(C)	<	0948	VVV	
61	SHOIG	2	0	×	0959	1 1 1	
7 /	8H03A	_	\ \ \	<	1017	111	
S	8H03B	ع	7	~	1601	V V V	
9 1	SHO3C	w	6	.<	1039	1	
10	BH031)	4	5	¥ ¥	1 1051	V V V	
PLEASE NOTE: Liability and I	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 the client for the	lusive remedy for any	claim arising whether based in contract	t or tort, shall be limited to the	amount paid by the client for	riha	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/13/2025 3:08:52 PM

JOB DESCRIPTION

Burtin Flats Line 03C2359007

JOB NUMBER

890-7665-1

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 2/13/2025 3:08:52 PM

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: Burtin Flats Line
Laboratory Job ID: 890-7665-1
SDG: 03C2359007

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Definitions/Glossary

Job ID: 890-7665-1 Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Descript	ioi

Indicates the analyte was analyzed for but not detected.

Glossary

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

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) MCL EPA recommended "Maximum Contaminant Level"

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

Presumptive PRES QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7665-1

Project: Burtin Flats Line

Eurofins Carlsbad Job ID: 890-7665-1

Job Narrative 890-7665-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/12/2025 12:59 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 -0.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-7665-1), BH02 (890-7665-2) and BH03 (890-7665-3).

GC VOA

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

Diesel Range Organics

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102636 and analytical batch 880-102691 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 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH02 (890-7665-2) and (890-7663-A-61-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (890-7663-A-61-B MS) and (890-7663-A-61-C MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: BH03 (890-7665-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-7665-1

Client Sample Results

Client: EnsolumJob ID: 890-7665-1Project/Site: Burtin Flats LineSDG: 03C2359007

Client Sample ID: BH01

Date Collected: 02/12/25 10:00 Date Received: 02/12/25 12:59

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:34	1
m-Xylene & p-Xylene	0.00415		0.00401	mg/Kg		02/13/25 08:12	02/13/25 11:34	1
o-Xylene	0.00265		0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:34	1
Xylenes, Total	0.00680		0.00401	mg/Kg		02/13/25 08:12	02/13/25 11:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			02/13/25 08:12	02/13/25 11:34	1
1,4-Difluorobenzene (Surr)	87		70 - 130			02/13/25 08:12	02/13/25 11:34	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00680		0.00401	mg/Kg			02/13/25 11:34	1
			•					
Method: SW846 8015 NM - Diese Analyte	Result	ics (DRO) (0 Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
			•	Unitmg/Kg	<u>D</u>	Prepared	Analyzed 02/13/25 14:12	Dil Fac
Analyte Total TPH	Result 290	Qualifier	49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 290 sel Range Orga	Qualifier	49.9		<u>D</u>	Prepared Prepared		1
Analyte	Result 290 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9	mg/Kg			02/13/25 14:12	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 290 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	02/13/25 14:12 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 290 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/12/25 16:58	02/13/25 14:12 Analyzed 02/13/25 14:12	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 290 sel Range Orga Result <49.9 290	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/12/25 16:58 02/12/25 16:58	02/13/25 14:12 Analyzed 02/13/25 14:12 02/13/25 14:12	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 290 sel Range Orga Result < 49.9 290 49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/12/25 16:58 02/12/25 16:58	02/13/25 14:12 Analyzed 02/13/25 14:12 02/13/25 14:12 02/13/25 14:12	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 290	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/12/25 16:58 02/12/25 16:58 02/12/25 16:58 Prepared	02/13/25 14:12 Analyzed 02/13/25 14:12 02/13/25 14:12 02/13/25 14:12 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 290	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/12/25 16:58 02/12/25 16:58 02/12/25 16:58 Prepared 02/12/25 16:58	02/13/25 14:12 Analyzed 02/13/25 14:12 02/13/25 14:12 02/13/25 14:12 Analyzed 02/13/25 14:12	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 290	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/12/25 16:58 02/12/25 16:58 02/12/25 16:58 Prepared 02/12/25 16:58	02/13/25 14:12 Analyzed 02/13/25 14:12 02/13/25 14:12 02/13/25 14:12 Analyzed 02/13/25 14:12	1 1 1 Dil Fac

Client Sample ID: BH02

Date Collected: 02/12/25 10:05 Date Received: 02/12/25 12:59

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/25 08:12	02/13/25 11:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/25 08:12	02/13/25 11:54	1
Ethylbenzene	0.0239		0.00199	mg/Kg		02/13/25 08:12	02/13/25 11:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/13/25 08:12	02/13/25 11:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/25 08:12	02/13/25 11:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/25 08:12	02/13/25 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			02/13/25 08:12	02/13/25 11:54	

Eurofins Carlsbad

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Lab Sample ID: 890-7665-2 Matrix: Solid Job ID: 890-7665-1 SDG: 03C2359007

Client: Ensolum Project/Site: Burtin Flats Line

Client Sample ID: BH02 Lab Sample ID: 890-7665-2 Date Collected: 02/12/25 10:05

Matrix: Solid

Date Received: 02/12/25 12:59 Sample Depth: 0.5

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	88	70 - 130	02/13/25 08:12	02/13/25 11:54	1

Mothod: TAL SOP	P Total BTEX - Total BTEX Calculation
Metrica. IAL SOI	Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTFX	0.0239	0.00398	ma/Ka			02/13/25 11:54	1

Method: SW846 8015 NM - Diesel I	D		101
	Rande Ordanics i	DROIG	7(.)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	132	49.8	ma/Ka			02/13/25 14:27	1	

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8	mg/Kg		02/12/25 16:58	02/13/25 14:27	1
132		49.8	mg/Kg		02/12/25 16:58	02/13/25 14:27	1
<49.8	U	49.8	mg/Kg		02/12/25 16:58	02/13/25 14:27	1
	<49.8 132	Result Qualifier	<49.8 U 49.8 132 49.8	<49.8 U 49.8 mg/Kg 132 49.8 mg/Kg	<49.8 U 49.8 mg/Kg 132 49.8 mg/Kg	<49.8 U	<49.8 U 49.8 mg/Kg 02/12/25 16:58 02/13/25 14:27 132 49.8 mg/Kg 02/12/25 16:58 02/13/25 14:27

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75	70 - 130	02/12/25 16:58	02/13/25 14:27	1
o-Terphenyl	69 S1-	70 - 130	02/12/25 16:58	02/13/25 14:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifie		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153	101	mg/Kg			02/13/25 13:23	10

Client Sample ID: BH03 Lab Sample ID: 890-7665-3

Date Collected: 02/12/25 10:10 Date Received: 02/12/25 12:59

Sample Depth: 0.5

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/13/25 08:12	02/13/25 12:15	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/13/25 08:12	02/13/25 12:15	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/13/25 08:12	02/13/25 12:15	1
m-Xylene & p-Xylene	0.0292		0.00398	mg/Kg		02/13/25 08:12	02/13/25 12:15	1
o-Xylene	0.0208		0.00199	mg/Kg		02/13/25 08:12	02/13/25 12:15	1
Xylenes, Total	0.0500		0.00398	mg/Kg		02/13/25 08:12	02/13/25 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			02/13/25 08:12	02/13/25 12:15	1

3					
4-Bromofluorobenzene (Surr)	129	70 - 130	02/13/25 08:12	02/13/25 12:15	1
1,4-Difluorobenzene (Surr)	88	70 - 130	02/13/25 08:12	02/13/25 12:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0500	0.00398	mg/Kg			02/13/25 12:15	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7950		50.3	mg/Kg			02/13/25 14:12	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-7665-3

02/13/25 13:50

Client Sample Results

Client: EnsolumJob ID: 890-7665-1Project/Site: Burtin Flats LineSDG: 03C2359007

Client Sample ID: BH03

Date Collected: 02/12/25 10:10 Date Received: 02/12/25 12:59

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	326		50.3	mg/Kg		02/13/25 12:52	02/13/25 14:12	1
Diesel Range Organics (Over C10-C28)	7620		50.3	mg/Kg		02/13/25 12:52	02/13/25 14:12	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		02/13/25 12:52	02/13/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130			02/13/25 12:52	02/13/25 14:12	1
o-Terphenyl	215	S1+	70 - 130			02/13/25 12:52	02/13/25 14:12	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

100

mg/Kg

1610

6

8

9

10

10

12

13

14

Surrogate Summary

Client: Ensolum Job ID: 890-7665-1
Project/Site: Burtin Flats Line SDG: 03C2359007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7665-1	BH01	99	87	
890-7665-1 MS	BH01	112	95	
890-7665-1 MSD	BH01	95	94	
890-7665-2	BH02	104	88	
890-7665-3	BH03	129	88	
LCS 880-102676/1-A	Lab Control Sample	99	100	
LCSD 880-102676/2-A	Lab Control Sample Dup	106	97	
MB 880-102676/5-A	Method Blank	95	91	

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 Limit
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
)-7663-A-61-B MS	Matrix Spike	66 S1-	65 S1-	
7663-A-61-C MSD	Matrix Spike Duplicate	68 S1-	67 S1-	
7665-1	BH01	75	73	
7665-2	BH02	75	69 S1-	
7665-3	BH03	164 S1+	215 S1+	
666-A-4-E MS	Matrix Spike	96	83	
666-A-4-F MSD	Matrix Spike Duplicate	100	87	
880-102636/2-A	Lab Control Sample	82	84	
380-102712/2-A	Lab Control Sample	127	125	
880-102636/3-A	Lab Control Sample Dup	83	85	
880-102712/3-A	Lab Control Sample Dup	117	109	
880-102636/1-A	Method Blank	108	101	
380-102712/1-A	Method Blank	91	82	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-7665-1 Project/Site: Burtin Flats Line SDG: 03C2359007

0.00400

0.00200

0.00400

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102676/5-A

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Analysis Batch: 102675

Client Sample ID: Method Blank

02/13/25 11:12

02/13/25 11:12

02/13/25 11:12

Analyzed

Prep Type: Total/NA

Prep Batch: 102676

МВ	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:12	1
<0.00200	U	0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:12	1
<0.00200	U	0.00200	mg/Kg		02/13/25 08:12	02/13/25 11:12	1

mg/Kg

mg/Kg

mg/Kg

MB MB

Qualifier Surrogate %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 95 91 70 - 130 1,4-Difluorobenzene (Surr)

<0.00400 U

<0.00200 U

<0.00400 U

02/13/25 08:12 02/13/25 11:12 02/13/25 08:12 02/13/25 11:12

02/13/25 08:12

02/13/25 08:12

02/13/25 08:12

Prepared

Lab Sample ID: LCS 880-102676/1-A

Matrix: Solid

Analysis Batch: 102675

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 102676

Dil Fac

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1128 mg/Kg 113 70 - 130 Toluene 0.100 0.1167 mg/Kg 117 70 - 130 0.100 Ethylbenzene 0.1191 mg/Kg 119 70 - 130 70 - 130 0.200 m-Xylene & p-Xylene 0.2220 mg/Kg 111 0.100 o-Xylene 0.1168 mg/Kg 117 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-102676/2-A

Matrix: Solid

Analysis Batch: 102675

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102676

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1145		mg/Kg		115	70 - 130	1	35	
Toluene	0.100	0.1213		mg/Kg		121	70 - 130	4	35	
Ethylbenzene	0.100	0.1253		mg/Kg		125	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2325		mg/Kg		116	70 - 130	5	35	
o-Xylene	0.100	0.1236		mg/Kg		124	70 - 130	6	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-7665-1 MS

Matrix: Solid

Analysis Batch: 102675

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 102676

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09209		mg/Kg		92	70 - 130	
Toluene	<0.00200	U	0.0998	0.1011		mg/Kg		101	70 - 130	

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QC Sample Results

Job ID: 890-7665-1 Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

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

Lab Sample ID: 890-7665-1 MS **Client Sample ID: BH01 Matrix: Solid** Prep Type: Total/NA Analysis Batch: 102675 Prep Batch: 102676

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 0.0998 0.09363 94 70 - 130 mg/Kg m-Xylene & p-Xylene 0.00415 0.200 0.1759 mg/Kg 86 70 - 130 0.00265 0.0998 0.09053 88 70 - 130 o-Xylene mg/Kg

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 112 1,4-Difluorobenzene (Surr) 70 - 130 95

Lab Sample ID: 890-7665-1 MSD **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 102675 Prep Batch: 102676 Sample Sample Snike MSD MSD %Rac

	Sample	Janipie	Spike	MISD	MIGD				/01 \C C		KFD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.09227		mg/Kg		93	70 - 130	0	35
Toluene	<0.00200	U	0.0996	0.09015		mg/Kg		91	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.0996	0.09519		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.00415		0.199	0.1485		mg/Kg		72	70 - 130	17	35
o-Xylene	0.00265		0.0996	0.07757		mg/Kg		75	70 - 130	15	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 95 1,4-Difluorobenzene (Surr) 94 70 - 130

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

Lab Sample ID: MB 880-102636/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 102691 **Prep Batch: 102636**

MR MR

	IVID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/12/25 16:58	02/13/25 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/12/25 16:58	02/13/25 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/12/25 16:58	02/13/25 09:25	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 70 - 130 02/12/25 16:58 1-Chlorooctane 108 02/13/25 09:25 101 70 - 130 02/12/25 16:58 02/13/25 09:25 o-Terphenyl

Lab Sample ID: LCS 880-102636/2-A **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA Analysis Batch: 102691 Prep Batch: 102636

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	993.8		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	997.2		mg/Kg		100	70 - 130	
C10-C28)								

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Matrix: Solid

Client Sample ID: BH01

Job ID: 890-7665-1 Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

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

LCS LCS

Lab Sample ID: LCS 880-102636/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 102691

Prep Type: Total/NA

Prep Batch: 102636

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-102636/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 102691

Prep Type: Total/NA

Prep Batch: 102636

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 822.7 82 70 - 13019 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 846.0 85 mg/Kg 70 - 13016 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-7663-A-61-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 102691

Prep Type: Total/NA

Prep Batch: 102636

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U F1 998 490.8 F1 mg/Kg 49 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 UF1 998 535.0 F1 mg/Kg 54 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits S1-70 - 130 1-Chlorooctane 66 o-Terphenyl 65 S1-70 - 130

Lab Sample ID: 890-7663-A-61-C MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 102691

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 102636

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U F1 998 494.2 F1 Gasoline Range Organics <50.0 50 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U F1 998 549.7 F1 mg/Kg 55 70 - 130 3 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 68 S1-70 - 130 67 S1-70 - 130 o-Terphenyl

Client: Ensolum Job ID: 890-7665-1 SDG: 03C2359007 Project/Site: Burtin Flats Line

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

82

Lab Sample ID: MB 880-102712/1-A

Matrix: Solid

Analysis Batch: 102693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102712

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/13/25 11:04	02/13/25 09:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/13/25 11:04	02/13/25 09:25	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			02/13/25 11:04	02/13/25 09:25	1

70 - 130

Lab Sample ID: LCS 880-102712/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 102693

Client Sample ID: Lab Control Sample

02/13/25 09:25

02/13/25 11:04

Prep Type: Total/NA

Prep Batch: 102712

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	1038		mg/Kg		104	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1061		mg/Kg		106	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 127 70 - 130 o-Terphenyl 125 70 - 130

Lab Sample ID: LCSD 880-102712/3-A

Matrix: Solid

Analysis Batch: 102693

Client Sample ID: Lab (Control Sample Dup
-------------------------	--------------------

Prep Type: Total/NA

Prep Batch: 102712

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	937.9		mg/Kg		94	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	918.3		mg/Kg		92	70 - 130	14	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 117 109 70 - 130 o-Terphenyl

Lab Sample ID: 890-7666-A-4-E MS

Matrix: Solid

Analysis Batch: 102693

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102712

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	1010	805.0		mg/Kg		80	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	1010	740.0		mg/Kg		74	70 - 130	
C10-C28)										

Job ID: 890-7665-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

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

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Lab Sample ID: 890-7666-A-4-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 102693 **Prep Batch: 102712**

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 _ 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-7666-A-4-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Prep Batch: 102712 Analysis Batch: 102693

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	1010	820.3		mg/Kg		82	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	1010	773.3		mg/Kg		77	70 - 130	4	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102690/1-A Client Sample ID: Method Blank

70 - 130

Matrix: Solid Prep Type: Soluble

Analysis Batch: 102709

Analysis Batch: 102709

o-Terphenyl

мв мв Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 10.0 <10.0 U mg/Kg 02/13/25 09:03

Lab Sample ID: LCS 880-102690/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 102709

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec

Analyte Limits Chloride 250 236.4 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-102690/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Spike LCSD LCSD %Rec RPD

Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 238.0 95 90 - 110 20 mg/Kg

Lab Sample ID: 890-7665-2 MS Client Sample ID: BH02

Matrix: Solid Prep Type: Soluble Analysis Batch: 102709

Spike MS MS %Rec Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 2530 153 2557 mg/Kg 90 - 110

QC Sample Results

Client: Ensolum Job ID: 890-7665-1 Project/Site: Burtin Flats Line

SDG: 03C2359007

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7665-2 MSD Client Sample ID: BH02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 102709

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	153		2530	2567		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-7665-1
Project/Site: Burtin Flats Line SDG: 03C2359007

GC VOA

Analysis Batch: 102675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Total/NA	Solid	8021B	102676
890-7665-2	BH02	Total/NA	Solid	8021B	102676
890-7665-3	BH03	Total/NA	Solid	8021B	102676
MB 880-102676/5-A	Method Blank	Total/NA	Solid	8021B	102676
LCS 880-102676/1-A	Lab Control Sample	Total/NA	Solid	8021B	102676
LCSD 880-102676/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102676
890-7665-1 MS	BH01	Total/NA	Solid	8021B	102676
890-7665-1 MSD	BH01	Total/NA	Solid	8021B	102676

Prep Batch: 102676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Total/NA	Solid	5035	<u> </u>
890-7665-2	BH02	Total/NA	Solid	5035	
890-7665-3	BH03	Total/NA	Solid	5035	
MB 880-102676/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102676/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102676/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7665-1 MS	BH01	Total/NA	Solid	5035	
890-7665-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 102721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Total/NA	Solid	Total BTEX	
890-7665-2	BH02	Total/NA	Solid	Total BTEX	
890-7665-3	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Total/NA	Solid	8015NM Prep	
890-7665-2	BH02	Total/NA	Solid	8015NM Prep	
MB 880-102636/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102636/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102636/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7663-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7663-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Total/NA	Solid	8015B NM	102636
890-7665-2	BH02	Total/NA	Solid	8015B NM	102636
MB 880-102636/1-A	Method Blank	Total/NA	Solid	8015B NM	102636
LCS 880-102636/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102636
LCSD 880-102636/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102636
890-7663-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	102636
890-7663-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102636

Analysis Batch: 102693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-3	BH03	Total/NA	Solid	8015B NM	102712

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14

QC Association Summary

Client: Ensolum Job ID: 890-7665-1
Project/Site: Burtin Flats Line SDG: 03C2359007

GC Semi VOA (Continued)

Analysis Batch: 102693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102712/1-A	Method Blank	Total/NA	Solid	8015B NM	102712
LCS 880-102712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102712
LCSD 880-102712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102712
890-7666-A-4-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102712
890-7666-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102712

Prep Batch: 102712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-3	BH03	Total/NA	Solid	8015NM Prep	
MB 880-102712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7666-A-4-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7666-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Total/NA	Solid	8015 NM	
890-7665-2	BH02	Total/NA	Solid	8015 NM	
890-7665-3	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Soluble	Solid	DI Leach	
890-7665-2	BH02	Soluble	Solid	DI Leach	
890-7665-3	BH03	Soluble	Solid	DI Leach	
MB 880-102690/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102690/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102690/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7665-2 MS	BH02	Soluble	Solid	DI Leach	
890-7665-2 MSD	BH02	Soluble	Solid	DI Leach	

Analysis Batch: 102709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7665-1	BH01	Soluble	Solid	300.0	102690
890-7665-2	BH02	Soluble	Solid	300.0	102690
890-7665-3	BH03	Soluble	Solid	300.0	102690
MB 880-102690/1-A	Method Blank	Soluble	Solid	300.0	102690
LCS 880-102690/2-A	Lab Control Sample	Soluble	Solid	300.0	102690
LCSD 880-102690/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102690
890-7665-2 MS	BH02	Soluble	Solid	300.0	102690
890-7665-2 MSD	BH02	Soluble	Solid	300.0	102690

Eurofins Carlsbad

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Client: Ensolum

Project/Site: Burtin Flats Line

Client Sample ID: BH01

Date Collected: 02/12/25 10:00

Date Received: 02/12/25 12:59

Job ID: 890-7665-1 SDG: 03C2359007

Lab Sample ID: 890-7665-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 4.99 g 102676 Total/NA Prep 5 mL 02/13/25 08:12 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 102675 02/13/25 11:34 MNR **EET MID** Total/NA Analysis Total BTEX 102721 02/13/25 11:34 ΑJ EET MID Total/NA 8015 NM 102733 02/13/25 14:12 **EET MID** Analysis 1 ΑJ Total/NA 8015NM Prep 102636 02/12/25 16:58 EET MID Prep 10.03 g 10 mL FΙ Total/NA Analysis 8015B NM 1 uL 1 uL 102691 02/13/25 14:12 TKC **EET MID** 5.02 g Soluble DI Leach 50 mL 102690 02/13/25 08:10 SA Leach **EET MID** Soluble Analysis 300.0 20 50 mL 50 mL 102709 02/13/25 13:13 СН **EET MID**

Client Sample ID: BH02 Lab Sample ID: 890-7665-2

Date Collected: 02/12/25 10:05 **Matrix: Solid** Date Received: 02/12/25 12:59

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	102676	02/13/25 08:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102675	02/13/25 11:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102721	02/13/25 11:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102733	02/13/25 14:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102636	02/12/25 16:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102691	02/13/25 14:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102690	02/13/25 08:10	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	102709	02/13/25 13:23	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-7665-3

Date Collected: 02/12/25 10:10 **Matrix: Solid** Date Received: 02/12/25 12:59

	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	102676	02/13/25 08:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102675	02/13/25 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102721	02/13/25 12:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102733	02/13/25 14:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	102712	02/13/25 12:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102693	02/13/25 14:12	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102690	02/13/25 08:10	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	102709	02/13/25 13:50	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-7665-1 Project/Site: Burtin Flats Line

SDG: 03C2359007

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELAP		T104704400	06-30-25	
,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

Method Summary

Client: Ensolum Job ID: 890-7665-1 Project/Site: Burtin Flats Line

SDG: 03C2359007

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: Burtin Flats Line

Job ID: 890-7665-1

SDG: 03C2359007

2333001	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-7665-1	BH01	Solid	02/12/25 10:00	02/12/25 12:59	0.5
890-7665-2	BH02	Solid	02/12/25 10:05	02/12/25 12:59	0.5
890-7665-3	BH03	Solid	02/12/25 10:10	02/12/25 12:59	0.5

eurofins

Xenco

Environment Testing

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Company Name: Bill to: (if different)

Ensolum

Address:

State of Project:

Deliverables: EDD

ADaPT 🗆

Other:

Level IV

Reporting: Level II | Level III | PST/UST | TRRP |

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

Address:

Company Name: Project Manager:

Ensolum

Jeremy Reich

Chain of Custody

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

VODO 000	890-7665 Chain of Custody		
Page / of	ustody		

e. Eurofins Xenco will ns Xenco. A minimum inauished by: (Si	: Signature of this docum	Te Method(s) and M	0103 / 7 000 leto						/	2049	2040	BHOI	Sample Identifica	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO#:	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone: 303
be liable only for the cost of samples ar charge of \$85.00 will be applied to each	ent and relinquishment of samples con	ctal(s) to be analyzed								^	5	5 2-12-25	ation Matrix Date	Corrected T	Yes No (N/A Temperatur	Yes No (NA Correction F	(Yes No Thermomet	Temp Blank: (Yes No		Connor Whitman		03C2359007	Burtin Flats Line	303-887-2946
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Received by: (Signature)	ard terms and conditions	TI U Hg: 1631 / 245.1 / 7470 /	Հ Ծ				AFE:		Cost Center:		NAPP250	Incident ID:	Sample C	NaOH+Ascorbic	Zn Acetate+NaO	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H₃PO₄: HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preservat	35. EUO L. Curci
	of Service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any basses or expenses incurrently for 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. Reciping the control of the cost of samples and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. 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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7665-1 SDG Number: 03C2359007

Login Number: 7665 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-7665-1

SDG Number: 03C2359007

Login Number: 7665 List Source: Eurofins Midland List Number: 2

List Creation: 02/13/25 07:46 AM

Creator: Laing, Edmundo

Question Answer Comment

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present

COC is filled out in ink and legible.

COC is filled out with all pertinent information

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

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

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

Eurofins Carlsbad

Released to Imaging: 8/26/2025 3:13:09 PM

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/3/2025 3:29:06 PM

JOB DESCRIPTION

Burtin Flats Line 03C2359007

JOB NUMBER

890-7731-1

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 3/3/2025 3:29:06 PM

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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Client: Ensolum
Project/Site: Burtin Flats Line

Laboratory Job ID: 890-7731-1
SDG: 03C2359007

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Definitions/Glossary

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Qualifiers

00	MOA
GU	VUA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

NEG

POS

PQL PRES

QC

RER

RL RPD

TEF

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

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
‡	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

TEQ Toxicity Equivalent Quotient (Dioxin) Too Numerous To Count

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

TNTC

Case Narrative

Client: Ensolum Job ID: 890-7731-1

Project: Burtin Flats Line

Eurofins Carlsbad Job ID: 890-7731-1

Job Narrative 890-7731-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/28/2025 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-01 (890-7731-1), SW-02 (890-7731-2), SW-03 (890-7731-3), FS-01 (890-7731-4), FS-02 (890-7731-5), FS-03 (890-7731-6), FS-04 (890-7731-7), FS-05 (890-7731-8), FS-06 (890-7731-9), FS-07 (890-7731-10), FS-08 (890-7731-11), FS-09 (890-7731-12), FS-10 (890-7731-13), FS-11 (890-7731-14), FS-12 (890-7731-15), FS-13 (890-7731-16), FS-14 (890-7731-17), FS-15 (890-7731-18), FS-16 (890-7731-19), FS-17 (890-7731-20), FS-18 (890-7731-21), FS-19 (890-7731-22) and FS-20 (890-7731-23).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-104122 and analytical batch 880-104114 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-104122 and analytical batch 880-104114 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-01 (890-7731-1), FS-06 (890-7731-9), FS-07 (890-7731-10), FS-15 (890-7731-18) and FS-16 (890-7731-19). Evidence of matrix interference is present; therefore, reextraction 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.

Diesel Range Organics

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-104091 and analytical batch 880-104093 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104084 and analytical batch 880-104174 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.

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

Matrix: Solid

Lab Sample ID: 890-7731-1

Client Sample Results

Client: Ensolum Job ID: 890-7731-1
Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: SW-01

Date Collected: 02/28/25 13:14 Date Received: 02/28/25 15:10

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:28	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:28	1
Ethylbenzene	0.00248	*+	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:28	1
m-Xylene & p-Xylene	0.00608	*+	0.00398	mg/Kg		03/02/25 08:11	03/02/25 19:28	1
o-Xylene	0.00401		0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:28	1
Xylenes, Total	0.0101	*+	0.00398	mg/Kg		03/02/25 08:11	03/02/25 19:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	356	S1+	70 - 130			03/02/25 08:11	03/02/25 19:28	1
1,4-Difluorobenzene (Surr)	86		70 - 130			03/02/25 08:11	03/02/25 19:28	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0126		0.00398	mg/Kg			03/02/25 19:28	1
		, , ,	GC)					
			•					
Analyte Total TPH	Result	Qualifier	RL 49.8	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 03/01/25 21:45	
		Qualifier	RL	mg/Kg	<u>D</u>	Prepared		
Total TPH	<49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared		
	<49.8 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.8		<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies	<49.8 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.8	mg/Kg		<u> </u>	03/01/25 21:45	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *+	RL 49.8 (GC)	mg/Kg		Prepared	03/01/25 21:45 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	03/01/25 21:45 Analyzed 03/01/25 21:45	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	03/01/25 21:45 Analyzed 03/01/25 21:45 03/01/25 21:45	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.8 sel Range Orga Result <49.8 <49.8 <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07	03/01/25 21:45 Analyzed 03/01/25 21:45 03/01/25 21:45 03/01/25 21:45	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared	03/01/25 21:45 Analyzed 03/01/25 21:45 03/01/25 21:45 03/01/25 21:45 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 90 85	Qualifier U nics (DRO) Qualifier U *+ U *+ U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/01/25 21:45 Analyzed 03/01/25 21:45 03/01/25 21:45 Analyzed 03/01/25 21:45	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 90 85 n Chromatograp	Qualifier U nics (DRO) Qualifier U *+ U *+ U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/01/25 21:45 Analyzed 03/01/25 21:45 03/01/25 21:45 Analyzed 03/01/25 21:45	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SW-02

Date Collected: 02/28/25 13:17 Date Received: 02/28/25 15:10

Date Received. 02/20/20 10:10

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:48	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:48	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/02/25 19:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/02/25 19:48	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/02/25 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/02/25 08:11	03/02/25 19:48	

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Lab Sample ID: 890-7731-2

Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-7731-2

Client: Ensolum SDG: 03C2359007 Project/Site: Burtin Flats Line

Client Sample ID: SW-02

Date Collected: 02/28/25 13:17 Date Received: 02/28/25 15:10

Sample Depth: 0-2

Method: SW846 8021B	- Volatile Organic	Compounds (GC	(Continued)
Method. 344040 002 1D	- voiatile Organic	Compounds (GC)	(Continueu)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130	03/02/25 08:11	03/02/25 19:48	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			03/02/25 19:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			03/01/25 22:29	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	<50.5	U *+	50.5	mg/Kg		03/01/25 21:07	03/01/25 22:29	1
Diesel Range Organics (Over C10-C28)	<50.5	U *+	50.5	mg/Kg		03/01/25 21:07	03/01/25 22:29	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/01/25 21:07	03/01/25 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82	70 - 130	03/01/25 21:07	03/01/25 22:29	1
o-Terphenyl	77	70 - 130	03/01/25 21:07	03/01/25 22:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		10.0	mg/Kg			03/03/25 14:26	1

Lab Sample ID: 890-7731-3 Client Sample ID: SW-03

Date Collected: 02/28/25 13:19 Date Received: 02/28/25 15:10

Sample Depth: 0-2

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

organio comp	ounus (CC)	,					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:09	1
<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:09	1
<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:09	1
<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 20:09	1
<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:09	1
<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 20:09	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
119		70 - 130			03/02/25 08:11	03/02/25 20:09	1
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399	Result Qualifier	<0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

4-Bromofluorobenzene (Surr)	119	70 - 130	03/02/25 08:11	03/02/25 20:09	1
1,4-Difluorobenzene (Surr)	111	70 - 130	03/02/25 08:11	03/02/25 20:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/02/25 20:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			03/01/25 22:43	1

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Matrix: Solid

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: SW-03 Lab Sample ID: 890-7731-3

Date Collected: 02/28/25 13:19 Matrix: Solid Date Received: 02/28/25 15:10

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U *+	49.7	mg/Kg		03/01/25 21:07	03/01/25 22:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U *+	49.7	mg/Kg		03/01/25 21:07	03/01/25 22:43	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/01/25 21:07	03/01/25 22:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			03/01/25 21:07	03/01/25 22:43	1
o-Terphenyl	80		70 - 130			03/01/25 21:07	03/01/25 22:43	1
Mothod: EDA 200.0. Aniono Jon	Chromatograp	hy - Solubl	e					
Method: EPA 300.0 - Anions, Ion								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS-01 Lab Sample ID: 890-7731-4 Matrix: Solid

Date Collected: 02/28/25 12:05 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		03/02/25 08:11	03/02/25 20:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:11	03/02/25 20:29	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		03/02/25 08:11	03/02/25 20:29	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		03/02/25 08:11	03/02/25 20:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:11	03/02/25 20:29	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		03/02/25 08:11	03/02/25 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/02/25 08:11	03/02/25 20:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/02/25 08:11	03/02/25 20:29	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			03/02/25 20:29	1
-								
			•					
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/01/25 22:58	Dil Fac
Analyte Total TPH	Result	Qualifier U	RL 49.8		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8	mg/Kg			03/01/25 22:58	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.8 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg		Prepared	03/01/25 22:58 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *+	RL 49.8 (GC)	mg/Kg		Prepared	03/01/25 22:58 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	03/01/25 22:58 Analyzed 03/01/25 22:58 03/01/25 22:58	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	(GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	03/01/25 22:58 Analyzed 03/01/25 22:58	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	03/01/25 22:58 Analyzed 03/01/25 22:58 03/01/25 22:58	1 Dil Fac 1
Analyte	Result <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07	03/01/25 22:58 Analyzed 03/01/25 22:58 03/01/25 22:58 03/01/25 22:58	Dil Fac 1 1 1

Client: Ensolum
Project/Site: Burtin Flats Line

SDG: 03C2359007

Client Sample ID: FS-01

Date Collected: 02/28/25 12:05 Date Received: 02/28/25 15:10 Matrix: Solid

Lab Sample ID: 890-7731-4

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Resul	lt Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193	2	10.1	mg/Kg			03/03/25 14:39	1

Client Sample ID: FS-02 Lab Sample ID: 890-7731-5

Date Collected: 02/28/25 12:07 Date Received: 02/28/25 15:10 Matrix: Solid

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:49	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:49	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 20:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 20:49	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			03/02/25 08:11	03/02/25 20:49	1
1,4-Difluorobenzene (Surr)	116		70 - 130			03/02/25 08:11	03/02/25 20:49	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	П	0.00399	mg/Kg			03/02/25 20:49	1

Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GO	c)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/01/25 23:13	1
Method: SW846 8015B NM - Diese Analyte		nics (DRO) (C	RL	Unit	D	Prepared	Analyzed	Dil Fac
0 II D 0 I	-10.0	11+.	40.0			00/04/05 04 07	00/04/05 00 40	

Gasoline Range Organics	<49.9	U *+	49.9	mg/Kg	03/01/25 21:07	03/01/25 23:13	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<49.9	U *+	49.9	mg/Kg	03/01/25 21:07	03/01/25 23:13	1
C10-C28)							
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	03/01/25 21:07	03/01/25 23:13	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130		03/01/25 21:07	03/01/25 23:13	1
o-Terphenyl	75		70 - 130		03/01/25 21:07	03/01/25 23:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	79.7		9.94	mg/Kg			03/03/25 09:30	1	

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Matrix: Solid

Lab Sample ID: 890-7731-6

Client Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-03

Date Collected: 02/28/25 12:08 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/02/25 21:10	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/02/25 21:10	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/02/25 21:10	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/02/25 21:10	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/02/25 21:10	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/02/25 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			03/02/25 08:11	03/02/25 21:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/02/25 08:11	03/02/25 21:10	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/02/25 21:10	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			03/01/25 23:28	1
Method: SW846 8015B NM - Dies	sel Range Orga	nice (DBO)						
Analyte	Joi italigo Oigo	ilics (DRO)	(GC)					
riidiyio		Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 03/01/25 21:07	Analyzed 03/01/25 23:28	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *+	RL		<u>D</u>	<u>·</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.2	Qualifier U *+ U *+	RL 50.2	mg/Kg	<u>D</u>	03/01/25 21:07	03/01/25 23:28	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.2 <50.2	Qualifier U *+ U *+	FL 50.2	mg/Kg	<u>D</u>	03/01/25 21:07	03/01/25 23:28	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.2 <50.2 <50.2	Qualifier U *+ U *+	RL 50.2 50.2 50.2	mg/Kg	<u>D</u>	03/01/25 21:07 03/01/25 21:07 03/01/25 21:07	03/01/25 23:28 03/01/25 23:28 03/01/25 23:28	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U *+ U *+	50.2 50.2 50.2 Limits	mg/Kg	<u>D</u>	03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 <i>Prepared</i>	03/01/25 23:28 03/01/25 23:28 03/01/25 23:28 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U *+ U *+ U Qualifier	RL 50.2 50.2 50.2 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/01/25 23:28 03/01/25 23:28 03/01/25 23:28 Analyzed 03/01/25 23:28	Dil Fac 1 1 1 Dil Fac 1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U *+ U *+ U Qualifier	RL 50.2 50.2 50.2 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/01/25 23:28 03/01/25 23:28 03/01/25 23:28 Analyzed 03/01/25 23:28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: FS-04

Date Collected: 02/28/25 12:10 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:31	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:31	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		03/02/25 08:11	03/02/25 21:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:31	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		03/02/25 08:11	03/02/25 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			03/02/25 08:11	03/02/25 21:31	1

Lab Sample ID: 890-7731-7

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-7731-7

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-04

Date Collected: 02/28/25 12:10 Date Received: 02/28/25 15:10

Sample Depth: 2

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

Surrogate	%Recovery C	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115	70 - 1	03/02/25 08:11	03/02/25 21:31	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
motilou. IAL	OOI TOTAL DIEN	TOTAL DIEN	Guidalation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/02/25 21:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			03/01/25 23:43	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *+	50.1	mg/Kg		03/01/25 21:07	03/01/25 23:43	1
Diesel Range Organics (Over C10-C28)	<50.1	U *+	50.1	mg/Kg		03/01/25 21:07	03/01/25 23:43	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/01/25 21:07	03/01/25 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	03/01/25 21:07	03/01/25 23:43	1
o-Terphenyl	99	70 - 130	03/01/25 21:07	03/01/25 23:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290	9.92	mg/Kg			03/03/25 09:54	1

Client Sample ID: FS-05 Lab Sample ID: 890-7731-8

Date Collected: 02/28/25 12:12 Date Received: 02/28/25 15:10

Sample Depth: 2

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

momous official social	no organio comp	Janua (Ja	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:51	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:51	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 21:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 21:51	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 21:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			03/02/25 08:11	03/02/25 21:51	1
1 4 Diffuorabanzana (Surr)	11.4		70 120			02/02/25 00:11	02/02/25 21:51	1

4-Bromofluorobenzene (Surr)	120	70 - 130	03/02/25 08:11 03/02/25 21:51	1
1,4-Difluorobenzene (Surr)	114	70 - 130	03/02/25 08:11 03/02/25 21:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/02/25 21:51	1

Analyte	. 3 3	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4 €	J	50.4	mg/Kg			03/01/25 23:57	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-7731-8

Client Sample Results

Client: Ensolum Job ID: 890-7731-1
Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-05

Date Collected: 02/28/25 12:12 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U *+	50.4	mg/Kg		03/01/25 21:07	03/01/25 23:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.4	U *+	50.4	mg/Kg		03/01/25 21:07	03/01/25 23:57	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/01/25 21:07	03/01/25 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/01/25 21:07	03/01/25 23:57	1
o-Terphenyl	88		70 - 130			03/01/25 21:07	03/01/25 23:57	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
			DI.	Unit	D	Dropored	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Ullit	ט	Prepared	Allalyzeu	DII Fac

Client Sample ID: FS-06

Lab Sample ID: 890-7731-9

Date Collected: 02/28/25 12:14

Matrix: Solid

Date Received: 02/28/25 15:10

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Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 22:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 22:11	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/02/25 22:11	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 22:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 22:11	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/02/25 22:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			03/02/25 08:11	03/02/25 22:11	1
1,4-Difluorobenzene (Surr)	112		70 - 130			03/02/25 08:11	03/02/25 22:11	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/02/25 22:11	1
-								
Mothod: SW946 9045 NM Dioce	ol Bango Organ	ice (DBO) (30)					
Method: SW846 8015 NM - Diese	• •	, , ,	,	Unit	n	Prenared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed 03/02/25 00:12	Dil Fac
Analyte	• •	Qualifier	,	<mark>Unit</mark> mg/Kg	D	Prepared	Analyzed 03/02/25 00:12	
Analyte Total TPH	Result <50.5	Qualifier U	RL 50.5		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.5	Qualifier U	RL 50.5		<u>D</u>	Prepared Prepared		1
Analyte	Result <50.5	Qualifier U nics (DRO) Qualifier	RL 50.5	mg/Kg		<u> </u>	03/02/25 00:12	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <50.5	Qualifier U nics (DRO) Qualifier	RL 50.5 (GC)	mg/Kg		Prepared	03/02/25 00:12 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.5	Qualifier U nics (DRO) Qualifier U *+	RL 50.5 (GC)	mg/Kg		Prepared	03/02/25 00:12 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result Sel Range Orga Result <50.5 \$50.5	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	03/02/25 00:12 Analyzed 03/02/25 00:12 03/02/25 00:12	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.5 (GC) RL 50.5	mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	03/02/25 00:12 Analyzed 03/02/25 00:12	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared	03/02/25 00:12 Analyzed 03/02/25 00:12 03/02/25 00:12 03/02/25 00:12 Analyzed	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07	03/02/25 00:12 Analyzed 03/02/25 00:12 03/02/25 00:12 03/02/25 00:12	1 Dil Fac 1

Client Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-06 Lab Sample ID: 890-7731-9 Date Collected: 02/28/25 12:14 Matrix: Solid Date Received: 02/28/25 15:10

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion C	thod: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		10.0	mg/Kg			03/03/25 10:06	1

Lab Sample ID: 890-7731-10 **Client Sample ID: FS-07** Matrix: Solid

Date Collected: 02/28/25 12:16 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		03/02/25 08:11	03/02/25 22:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/02/25 08:11	03/02/25 22:32	1
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		03/02/25 08:11	03/02/25 22:32	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	mg/Kg		03/02/25 08:11	03/02/25 22:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/02/25 08:11	03/02/25 22:32	1
Xylenes, Total	<0.00403	U *+	0.00403	mg/Kg		03/02/25 08:11	03/02/25 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			03/02/25 08:11	03/02/25 22:32	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/02/25 08:11	03/02/25 22:32	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/02/25 22:32	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			03/02/25 00:27	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		03/01/25 21:07	03/02/25 00:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		03/01/25 21:07	03/02/25 00:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/01/25 21:07	03/02/25 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			03/01/25 21:07	03/02/25 00:27	1
o-Terphenyl	78		70 - 130			03/01/25 21:07	03/02/25 00:27	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Amaluta	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL.	Oilit	D	riepaieu	Allalyzeu	Diriac

Client Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-08

Lab Sample ID: 890-7731-11 Date Collected: 02/28/25 12:17 Matrix: Solid Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		03/02/25 08:11	03/03/25 00:22	1
Toluene	< 0.00201	U	0.00201	mg/Kg		03/02/25 08:11	03/03/25 00:22	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		03/02/25 08:11	03/03/25 00:22	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		03/02/25 08:11	03/03/25 00:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:11	03/03/25 00:22	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		03/02/25 08:11	03/03/25 00:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/02/25 08:11	03/03/25 00:22	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/02/25 08:11	03/03/25 00:22	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/03/25 00:22	1
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) (SC)					
Method. 544040 0013 MM - Diese	er italige Organ	ics (DitO) (30)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result		RL 49.9	Mg/Kg	<u>D</u>	Prepared	Analyzed 03/02/25 00:57	Dil Fac
<u> </u>	<49.9	U	49.9		<u>D</u>	Prepared		
Total TPH	<49.9	U	49.9		<u>D</u> 	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	<49.9	nics (DRO) Qualifier	49.9 (GC)	mg/Kg			03/02/25 00:57	1
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	nics (DRO) Qualifier U*+	49.9 (GC)	mg/Kg		Prepared	03/02/25 00:57 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	<49.9 sel Range Orga Result <49.9	nics (DRO) Qualifier U *+	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	03/02/25 00:57 Analyzed 03/02/25 00:57	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9 <49.9	Oualifier U*+ U*+	(GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	03/02/25 00:57 Analyzed 03/02/25 00:57 03/02/25 00:57	1 Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	Oualifier U*+ U*+	49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07	03/02/25 00:57 Analyzed 03/02/25 00:57 03/02/25 00:57 03/02/25 00:57	Dil Fac 1 1 Dil Fac Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Oualifier U*+ U*+	49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared	03/02/25 00:57 Analyzed 03/02/25 00:57 03/02/25 00:57 03/02/25 00:57 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 91 <84	Onics (DRO) Qualifier U*+ U*+ U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/02/25 00:57 Analyzed 03/02/25 00:57 03/02/25 00:57 03/02/25 00:57 Analyzed 03/02/25 00:57	1 Dil Fac 1 1
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9 %Recovery 91 84 n Chromatograp	Onics (DRO) Qualifier U*+ U*+ U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/02/25 00:57 Analyzed 03/02/25 00:57 03/02/25 00:57 03/02/25 00:57 Analyzed 03/02/25 00:57	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: FS-09 Lab Sample ID: 890-7731-12

Date Collected: 02/28/25 12:30 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 00:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 00:42	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 00:42	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/03/25 00:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 00:42	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/03/25 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/02/25 08:11	03/03/25 00:42	1

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Matrix: Solid

Job ID: 890-7731-1

Client: Ensolum SDG: 03C2359007 Project/Site: Burtin Flats Line

Client Sample ID: FS-09

Lab Sample ID: 890-7731-12

Date Collected: 02/28/25 12:30 Matrix: Solid Date Received: 02/28/25 15:10

Sample Depth: 2

Method: SW846 8021B	- Volatile Organic	Compounds ((GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	105	70 _ 130	03/02/25 08:11	03/03/25 00:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			03/03/25 00:42	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			03/02/25 01:13	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	<49.8	U *+	49.8	mg/Kg		03/01/25 21:07	03/02/25 01:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg		03/01/25 21:07	03/02/25 01:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/25 21:07	03/02/25 01:13	1
Surrogate	%Recovery	Qualifier	l imits			Propared	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84	70 - 130	03/01/25 21:07	03/02/25 01:13	1
o-Terphenyl	77	70 - 130	03/01/25 21:07	03/02/25 01:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	446		9.98	mg/Kg			03/03/25 10:35	1

Client Sample ID: FS-10 Lab Sample ID: 890-7731-13 **Matrix: Solid**

Date Collected: 02/28/25 12:31 Date Received: 02/28/25 15:10

Sample Depth: 2

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

Analyte	Beaut.	Qualifier	RL	Unit	D	Prepared	Analyzad	Dil Fac
Analyte	Result	Qualifier	RL	Unit		Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:03	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:03	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/03/25 01:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:03	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/03/25 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			03/02/25 08:11	03/03/25 01:03	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	03/02/25 08:11	03/03/25 01:03	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/02/25 08:11	03/03/25 01:03	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			03/03/25 01:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/02/25 01:27	1

Matrix: Solid

Lab Sample ID: 890-7731-13

03/03/25 10:41

Matrix: Solid

Lab Sample ID: 890-7731-14

Job ID: 890-7731-1 SDG: 03C2359007

Client Sample ID: FS-10

Project/Site: Burtin Flats Line

Date Collected: 02/28/25 12:31 Date Received: 02/28/25 15:10

Sample Depth: 2

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8	mg/Kg		03/01/25 21:07	03/02/25 01:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg		03/01/25 21:07	03/02/25 01:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/25 21:07	03/02/25 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			03/01/25 21:07	03/02/25 01:27	1
o-Terphenyl	77		70 - 130			03/01/25 21:07	03/02/25 01:27	1

9.98

mg/Kg

97.6

Client Sample ID: FS-11

Date Collected: 02/28/25 12:33

Date Received: 02/28/25 15:10

Sample Depth: 2

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:23	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:23	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:23	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/03/25 01:23	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/03/25 01:23	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/03/25 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			03/02/25 08:11	03/03/25 01:23	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/02/25 08:11	03/03/25 01:23	1
Method: TAL SOP Total BTEX - T								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/03/25 01:23	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			03/02/25 01:42	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	<49.6	U *+	49.6	mg/Kg		03/01/25 21:07	03/02/25 01:42	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6	mg/Kg		03/01/25 21:07	03/02/25 01:42	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		03/01/25 21:07	03/02/25 01:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			03/01/25 21:07	03/02/25 01:42	1
	73		70 - 130			03/01/25 21:07	03/02/25 01:42	

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2

3

5

7

9

12

13

Matrix: Solid

Lab Sample ID: 890-7731-14

Client Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-11

Date Collected: 02/28/25 12:33 Date Received: 02/28/25 15:10

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	20.9		10.1	mg/Kg			03/03/25 10:47	1		

Client Sample ID: FS-12 Lab Sample ID: 890-7731-15 Matrix: Solid

Date Collected: 02/28/25 12:34 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U *+	0.00198	mg/Kg		03/02/25 08:11	03/03/25 01:44	
Toluene	<0.00198	U	0.00198	mg/Kg		03/02/25 08:11	03/03/25 01:44	•
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		03/02/25 08:11	03/03/25 01:44	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		03/02/25 08:11	03/03/25 01:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/02/25 08:11	03/03/25 01:44	•
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		03/02/25 08:11	03/03/25 01:44	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			03/02/25 08:11	03/03/25 01:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/02/25 08:11	03/03/25 01:44	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			03/03/25 01:44	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/02/25 01:58	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	<50.3	U *+	50.3	mg/Kg		03/01/25 21:07	03/02/25 01:58	1
Diesel Range Organics (Over C10-C28)	<50.3	U *+	50.3	mg/Kg		03/01/25 21:07	03/02/25 01:58	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		03/01/25 21:07	03/02/25 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			03/01/25 21:07	03/02/25 01:58	1
o-Terphenyl	77		70 - 130			03/01/25 21:07	03/02/25 01:58	1
Method: EPA 300.0 - Anions, Ion		-						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177	E4	10.0	mg/Kg			03/03/25 10:53	1

Client Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-13

Lab Sample ID: 890-7731-16

Date Collected: 02/28/25 12:37 Matrix: Solid Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:04	
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:04	
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:04	
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		03/02/25 08:11	03/03/25 02:04	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:04	
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		03/02/25 08:11	03/03/25 02:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130			03/02/25 08:11	03/03/25 02:04	
1,4-Difluorobenzene (Surr)	119		70 - 130			03/02/25 08:11	03/03/25 02:04	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
				mg/Kg				
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (G	GC)	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/02/25 02:12	Dil Fac
Analyte Total TPH	Result < 50.1	Qualifier U	50.1		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.1	Qualifier U	50.1		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.1 sel Range Orga Result	Qualifier U	RL 50.1	mg/Kg			03/02/25 02:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.1 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *+	RL 50.1 (GC)	mg/Kg		Prepared	03/02/25 02:12 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1 sel Range Orga Result <50.1	Qualifier U nics (DRO) Qualifier U *+ U *+	(GC) RL 50.1	mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	03/02/25 02:12 Analyzed 03/02/25 02:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.1	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	03/02/25 02:12 Analyzed 03/02/25 02:12 03/02/25 02:12	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.1	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07	03/02/25 02:12 Analyzed 03/02/25 02:12 03/02/25 02:12 03/02/25 02:12	Dil Fa
Analyte	Result <50.1	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared	03/02/25 02:12 Analyzed 03/02/25 02:12 03/02/25 02:12 03/02/25 02:12 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.1	Qualifier U nics (DRO) Qualifier U *+ U *+ U Qualifier	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/02/25 02:12 Analyzed 03/02/25 02:12 03/02/25 02:12 03/02/25 02:12 Analyzed 03/02/25 02:12	
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.1	Qualifier U nics (DRO) Qualifier U *+ U *+ U Qualifier	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07 03/01/25 21:07 Prepared 03/01/25 21:07	03/02/25 02:12 Analyzed 03/02/25 02:12 03/02/25 02:12 03/02/25 02:12 Analyzed 03/02/25 02:12	Dil Fa

Client Sample ID: FS-14 Lab Sample ID: 890-7731-17 Date Collected: 02/28/25 12:38 Matrix: Solid

Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:25	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:25	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/03/25 02:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 02:25	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/03/25 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			03/02/25 08:11	03/03/25 02:25	1

Matrix: Solid

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-14

Lab Sample ID: 890-7731-17 Date Collected: 02/28/25 12:38 Date Received: 02/28/25 15:10

Sample Depth: 2

Method: SW846 8021B - Volati	e Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	104	70 - 130	03/02/25 08:11	03/03/25 02:25	1

Mathad: TAI	COD Total DTEV	Total DTCV	Calaulatian
Wethod: IAL	SOP Total BTEX	- IOIAI DIEA	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			03/03/25 02:25	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	ma/Ka			03/02/25 02:27	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	<50.4	U *+	50.4	mg/Kg		03/01/25 21:07	03/02/25 02:27	1
Diesel Range Organics (Over C10-C28)	<50.4	U *+	50.4	mg/Kg		03/01/25 21:07	03/02/25 02:27	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/01/25 21:07	03/02/25 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81	70 - 130	03/01/25 21:07	03/02/25 02:27	1
o-Terphenyl	75	70 - 130	03/01/25 21:07	03/02/25 02:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		9.98	mg/K	g		03/03/25 11:16	1

Client Sample ID: FS-15 Lab Sample ID: 890-7731-18 **Matrix: Solid**

Date Collected: 02/28/25 12:41 Date Received: 02/28/25 15:10

Sample Depth: 2

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

repared Analyzed	Dil Fac
2/25 08:11 03/03/25 02:	45 1
2/25 08:11 03/03/25 02:	45 1
2/25 08:11 03/03/25 02:	45 1
2/25 08:11 03/03/25 02:	45 1
2/25 08:11 03/03/25 02:	45 1
2/25 08:11 03/03/25 02:	45 1
repared Analyzed	Dil Fac
2/25 08:11 03/03/25 02:	45 1
))))	03/03/25 02:4 12/25 08:11 03/03/25 02:4

ı	4-Bromofluorobenzene (Surr)	141 S1+	70 ₋ 130	03/02/25 08:11	03/03/25 02:45	1
Į	1,4-Difluorobenzene (Surr)	107	70 - 130	03/02/25 08:11	03/03/25 02:45	1
ì	_					

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		_	03/03/25 02:45	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			03/02/25 02:42	1

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-15

Lab Sample ID: 890-7731-18 Date Collected: 02/28/25 12:41 Matrix: Solid Date Received: 02/28/25 15:10

Sample Depth: 2

		inics (DRO)	· /					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U *+	50.5	mg/Kg		03/01/25 21:07	03/02/25 02:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.5	U *+	50.5	mg/Kg		03/01/25 21:07	03/02/25 02:42	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/01/25 21:07	03/02/25 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/01/25 21:07	03/02/25 02:42	1
o-Terphenyl	91		70 - 130			03/01/25 21:07	03/02/25 02:42	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS-16 Lab Sample ID: 890-7731-19 Matrix: Solid

Date Collected: 02/28/25 12:43

Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/03/25 03:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/03/25 03:05	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		03/02/25 08:11	03/03/25 03:05	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/03/25 03:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/25 08:11	03/03/25 03:05	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		03/02/25 08:11	03/03/25 03:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			03/02/25 08:11	03/03/25 03:05	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/02/25 08:11	03/03/25 03:05	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00000	""			00/00/05 00 05	
IOIAI DI EX	~0.00330	U	0.00398	mg/Kg			03/03/25 03:05	1
• •				mg/Kg			03/03/25 03:05	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					·
• •	el Range Organ Result	ics (DRO) (GC)	mg/kg	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <50.5	ics (DRO) (Qualifier	RL 50.5	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.5 sel Range Organ	ics (DRO) (Gualifier	RL 50.5	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <50.5 sel Range Organ	ics (DRO) (Outline DRO) Qualifier Qualifier Qualifier	RL 50.5 (GC)	Unit mg/Kg			Analyzed 03/02/25 02:56	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <50.5 sel Range Orga Result <50.5	ics (DRO) ((Qualifier U nics (DRO) Qualifier U *+	GC) RL 50.5 (GC) RL 50.5	Unit mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	Analyzed 03/02/25 02:56 Analyzed 03/02/25 02:56	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <50.5 sel Range Orga Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U *+	GC) RL 50.5 (GC) RL	Unit mg/Kg		Prepared	Analyzed 03/02/25 02:56 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.5 sel Range Orga Result <50.5	ics (DRO) ((Qualifier U nics (DRO) Qualifier U *+ U *+	GC) RL 50.5 (GC) RL 50.5	Unit mg/Kg Unit mg/Kg		Prepared 03/01/25 21:07	Analyzed 03/02/25 02:56 Analyzed 03/02/25 02:56	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.5 sel Range Orga Result <50.5 <50.5	cos (DRO) (Control of the control of	GC) RL 50.5 (GC) RL 50.5 50.5	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07	Analyzed 03/02/25 02:56 Analyzed 03/02/25 02:56 03/02/25 02:56	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <50.5 sel Range Orga Result <50.5 <50.5 <50.5	cos (DRO) (Control of the control of	GC) RL 50.5 (GC) RL 50.5 50.5 50.5	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/01/25 21:07 03/01/25 21:07	Analyzed 03/02/25 02:56 Analyzed 03/02/25 02:56 03/02/25 02:56 03/02/25 02:56	Dil Fac Dil Fac 1 1 1

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line

SDG: 03C2359007

Client Sample ID: FS-16

Lab Sample ID: 890-7731-19

Date Collected: 02/28/25 12:43 Date Received: 02/28/25 15:10 Matrix: Solid

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	416		10.0	mg/Kg			03/03/25 11:40	1

Lab Sample ID: 890-7731-20 **Client Sample ID: FS-17**

Date Collected: 02/28/25 12:46 Matrix: Solid

Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 03:26	
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 03:26	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		03/02/25 08:11	03/03/25 03:26	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/03/25 03:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/03/25 03:26	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		03/02/25 08:11	03/03/25 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			03/02/25 08:11	03/03/25 03:26	
1,4-Difluorobenzene (Surr)	107		70 - 130			03/02/25 08:11	03/03/25 03:26	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/25 03:26	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (C	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/02/25 03:11	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	<50.3	U *+	50.3	mg/Kg		03/01/25 21:07	03/02/25 03:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.3	U *+	50.3	mg/Kg		03/01/25 21:07	03/02/25 03:11	1
Diesel Range Organics (Over C10-C28)	<50.3 <50.3		50.3 50.3	mg/Kg		03/01/25 21:07 03/01/25 21:07	03/02/25 03:11	1
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)		U						
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<50.3	U	50.3			03/01/25 21:07	03/02/25 03:11	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.3 %Recovery	U	50.3			03/01/25 21:07 Prepared	03/02/25 03:11 Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.3 — %Recovery 89 80	U Qualifier	50.3 Limits 70 - 130 70 - 130			03/01/25 21:07 Prepared 03/01/25 21:07	03/02/25 03:11 Analyzed 03/02/25 03:11	Dil Fac
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.3 **Recovery 89 80 Chromatograp	U Qualifier	50.3 Limits 70 - 130 70 - 130		D	03/01/25 21:07 Prepared 03/01/25 21:07	03/02/25 03:11 Analyzed 03/02/25 03:11	Dil Fac

Matrix: Solid

Lab Sample ID: 890-7731-21

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-18

Date Collected: 02/28/25 12:48 Date Received: 02/28/25 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 21:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 21:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 21:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/02/25 08:16	03/02/25 21:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 21:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/02/25 08:16	03/02/25 21:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/02/25 08:16	03/02/25 21:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130			03/02/25 08:16	03/02/25 21:08	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/02/25 21:08	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/02/25 05:09	1
Method: SW846 8015B NM - D	Diesel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
raidiyio						•	•	

Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	03/01/25 21:43	03/02/25 05:09	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130		03/01/25 21:43	03/02/25 05:09	1
o-Terphenyl	86		70 - 130		03/01/25 21:43	03/02/25 05:09	1

49.9

mg/Kg

03/01/25 21:43

03/02/25 05:09

<49.9 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	349	9.96	mg/Kg			03/03/25 11:51	1

Client Sample ID: FS-19 Lab Sample ID: 890-7731-22

Date Collected: 02/28/25 12:50 Date Received: 02/28/25 15:10

Sample Depth: 2

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/02/25 08:16	03/02/25 21:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/02/25 08:16	03/02/25 21:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/02/25 08:16	03/02/25 21:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/02/25 08:16	03/02/25 21:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/02/25 08:16	03/02/25 21:28	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/02/25 08:16	03/02/25 21:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/02/25 08:16	03/02/25 21:28	1

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-19 Lab Sample ID: 890-7731-22 Date Collected: 02/28/25 12:50

Matrix: Solid

Date Received: 02/28/25 15:10 Sample Depth: 2

Method: SW846 8021B - Volatile O	rganic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qua	ıalifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 130	03/02/25 08:16	03/02/25 21:28	1

Method:	TAL SOP	Total BTFX	- Total	BTFX	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403 U	0.00403	ma/Ka			03/02/25 21:28	1

Mathada OMO40 0045 NM Disasi Damas Omenica (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5 U	50.5	mg/Kg		.	03/02/25 05:54	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		03/01/25 21:43	03/02/25 05:54	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		03/01/25 21:43	03/02/25 05:54	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/01/25 21:43	03/02/25 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	03/01/25 21:43	03/02/25 05:54	1
o-Terphenyl	77	70 - 130	03/01/25 21:43	03/02/25 05:54	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		10.0	mg/Kg			03/03/25 11:57	1

Lab Sample ID: 890-7731-23 **Client Sample ID: FS-20** Matrix: Solid

Date Collected: 02/28/25 12:52 Date Received: 02/28/25 15:10

Sample Depth: 1

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Michiga. Offoro our ID - folat	ne organie comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:16	03/02/25 23:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:16	03/02/25 23:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:16	03/02/25 23:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/02/25 08:16	03/02/25 23:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/02/25 08:16	03/02/25 23:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/02/25 08:16	03/02/25 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/02/25 08:16	03/02/25 23:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130			03/02/25 08:16	03/02/25 23:02	1

Т	1,4-Difluorobenzene (Surr)	96	70 - 130	03/02/25 08:16	03/02/25 2
	- -				

Method: TAL SOP Total BTEX - Tot	al BTEX Calcu	lation						
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	J	0.00402	mg/Kg			03/02/25 23:02	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			03/02/25 06:08	1

Matrix: Solid

Lab Sample ID: 890-7731-23

03/03/25 12:03

Client Sample Results

Client: EnsolumJob ID: 890-7731-1Project/Site: Burtin Flats LineSDG: 03C2359007

Client Sample ID: FS-20

Date Collected: 02/28/25 12:52 Date Received: 02/28/25 15:10

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		03/01/25 21:43	03/02/25 06:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		03/01/25 21:43	03/02/25 06:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/01/25 21:43	03/02/25 06:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			03/01/25 21:43	03/02/25 06:08	1
o-Terphenyl	78		70 - 130			03/01/25 21:43	03/02/25 06:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	D lt	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

10.1

307

mg/Kg

0

9

11

14

4 /

Surrogate Summary

Client: Ensolum Job ID: 890-7731-1
Project/Site: Burtin Flats Line SDG: 03C2359007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-7731-1	SW-01	356 S1+	86	
90-7731-1 MS	SW-01	116	105	
90-7731-1 MSD	SW-01	125	111	
90-7731-2	SW-02	116	113	
390-7731-3	SW-03	119	111	
390-7731-4	FS-01	111	110	
390-7731-5	FS-02	128	116	
390-7731-6	FS-03	124	108	
390-7731-7	FS-04	129	115	
390-7731-8	FS-05	120	114	
390-7731-9	FS-06	143 S1+	112	
390-7731-10	FS-07	131 S1+	109	
390-7731-11	FS-08	100	110	
390-7731-12	FS-09	117	105	
390-7731-13	FS-10	128	110	
390-7731-14	FS-11	130	110	
390-7731-15	FS-12	121	103	
90-7731-16	FS-13	126	119	
390-7731-17	FS-14	130	104	
390-7731-18	FS-15	141 S1+	107	
90-7731-19	FS-16	141 S1+	108	
390-7731-20	FS-17	136 S1+	107	
390-7731-21	FS-18	108	91	
390-7731-22	FS-19	109	91	
390-7731-23	FS-20	102	96	
390-7732-A-21-C MS	Matrix Spike	106	103	
890-7732-A-21-D MSD	Matrix Spike Duplicate	95	103	
_CS 880-104122/1-A	Lab Control Sample	113	99	
LCS 880-104125/1-A	Lab Control Sample	92	106	
CSD 880-104122/2-A	Lab Control Sample Dup	113	100	
CSD 880-104125/2-A	Lab Control Sample Dup	102	103	
MB 880-104122/5-A	Method Blank	159 S1+	98	
MB 880-104125/5-A	Method Blank	93		
/ID 00U-1U41Z3/3-A	MEMOU DIAM	93	91	

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)	
890-7731-1	SW-01	90	85	
890-7731-1 MS	SW-01	92	82	
890-7731-1 MSD	SW-01	91	82	
890-7731-2	SW-02	82	77	
890-7731-3	SW-03	86	80	
890-7731-4	FS-01	82	76	

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum Job ID: 890-7731-1
Project/Site: Burtin Flats Line SDG: 03C2359007

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

Matrix: Solid Prep Type: Total/NA

		1CO1	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
l ah Camula ID	Client Comple ID	(70-130)	(70-130)	
Lab Sample ID 890-7731-5	Client Sample ID FS-02	81	75	· — — — — — — — —
890-7731-6	FS-03	88	82	
890-7731-7	FS-04	107	99	
890-7731-8	FS-05	96	88	
890-7731-9	FS-06	89	84	
890-7731-9	FS-07	82	78	
890-7731-10	FS-08	91	84	
890-7731-12	FS-09	84	77	
890-7731-12	FS-10	84	77 77	
890-7731-13				
890-7731-14 890-7731-15	FS-11 FS-12	80 85	73 77	
890-7731-16	FS-12 FS-13	83	77 76	
890-7731-16	FS-13			
890-7731-18	FS-14 FS-15	81 99	75 91	
890-7731-18	FS-16	99	91	
890-7731-19	FS-10			
890-7731-21	FS-17 FS-18	89 95	80 86	
890-7731-21 MS	FS-16 FS-18	95 89	77	
890-7731-21 MSD	FS-18	87	76	
890-7731-22	FS-19 FS-20	86	77	
890-7731-23 LCS 880-104091/2-A		85	78	
	Lab Control Sample	114	104	
LCS 880-104097/2-A	Lab Control Sample	97	87	
LCSD 880-104091/3-A	Lab Control Sample Dup	108	100	
LCSD 880-104097/3-A	Lab Control Sample Dup	100	90	
MB 880-104091/1-A	Method Blank	91	87	
MB 880-104097/1-A	Method Blank	108	98	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-7731-1 SDG: 03C2359007 Project/Site: Burtin Flats Line

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104122/5-A

Matrix: Solid

o-Xylene Xylenes, Total

Analysis Batch: 104114

Client Sample ID: Method Blank

03/02/25 18:59

Prep Type: Total/NA

Prep Batch: 104122

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 18:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 18:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 18:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/02/25 08:11	03/02/25 18:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:11	03/02/25 18:59	1

mg/Kg

MB MB

<0.00401 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	03/02/25 08:	11 03/02/25 18:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/02/25 08:	11 03/02/25 18:59	1

0.00401

Lab Sample ID: LCS 880-104122/1-A

Matrix: Solid

Analysis Batch: 104114

Client Sample ID: Lab Control Sample

03/02/25 08:11

Prep Type: Total/NA

Prep Batch: 104122

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1176		mg/Kg		118	70 - 130	
Toluene	0.100	0.1246		mg/Kg		125	70 - 130	
Ethylbenzene	0.100	0.1167		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	0.200	0.2561		mg/Kg		128	70 - 130	
o-Xylene	0.100	0.1232		mg/Kg		123	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-104122/2-A

Matrix: Solid

Analysis Batch: 104114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104122

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1309	*+	mg/Kg		131	70 - 130	11	35	
Toluene	0.100	0.1169		mg/Kg		117	70 - 130	6	35	
Ethylbenzene	0.100	0.1342	*+	mg/Kg		134	70 - 130	14	35	
m-Xylene & p-Xylene	0.200	0.2673	*+	mg/Kg		134	70 - 130	4	35	
o-Xylene	0.100	0.1266		mg/Kg		127	70 - 130	3	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1.4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7731-1 MS

Matrix: Solid

Analysis Batch: 104114

Client Sample ID: SW-01

Prep Type: Total/NA

Prep Batch: 104122

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U *+	0.100	0.1042		mg/Kg		104	70 - 130	
Toluene	< 0.00199	U	0.100	0.09424		mg/Kg		94	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

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

Lab Sample ID: 890-7731-1 MS

Matrix: Solid

Analysis Batch: 104114									Prep l	Batch: 104122
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.00248	*+	0.100	0.09513		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.00608	*+	0.200	0.2108		mg/Kg		102	70 - 130	
o-Xylene	0.00401		0.100	0.1033		mg/Kg		99	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-7731-1 MSD

Matrix: Solid

Analysis Batch: 104114

Client Sample ID: SW-01 Prep Type: Total/NA

Client Sample ID: SW-01

Prep Type: Total/NA

Prep Batch: 104122

Sample Sample Spike MSD MSD %Rec %Rec Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit 0.100 106 70 - 130 2 Benzene <0.00199 U*+ 0.1063 mg/Kg 35 Toluene <0.00199 U 0.100 0.1031 103 70 - 130 35 mg/Kg Ethylbenzene 0.00248 *+ 0.100 0.1062 mg/Kg 104 70 - 130 11 35 m-Xylene & p-Xylene 0.00608 0.200 0.2298 mg/Kg 112 70 - 130 9 35 0.100 o-Xylene 0.00401 0.1110 107 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	125	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: MB 880-104125/5-A

Matrix: Solid

Analysis Batch: 104100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104125

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 18:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 18:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 18:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/02/25 08:16	03/02/25 18:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/25 08:16	03/02/25 18:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/02/25 08:16	03/02/25 18:02	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	70 - 130	03/02/25 08:16	03/02/25 18:02	1
1,4-Difluorobenzene (Surr)	91	70 - 130	03/02/25 08:16	03/02/25 18:02	1

Lab Sample ID: LCS 880-104125/1-A

Matrix: Solid

Analysis Batch: 104100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104125

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1150		mg/Kg		115	70 - 130	
Toluene	0.100	0.1111		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.1884		mg/Kg		94	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

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

Lab Sample ID: LCS 880-104125/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 104100 **Prep Batch: 104125** LCS LCS

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.1004 100 70 - 130 o-Xylene mg/Kg

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

Lab Sample ID: LCSD 880-104125/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Prep Batch: 104125** Analysis Batch: 104100

Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Benzene 0.100 0.1163 mg/Kg 116 70 - 130 35 Toluene 0.100 0.1200 mg/Kg 120 70 - 130 8 35 Ethylbenzene 0.100 0.1151 mg/Kg 115 70 - 130 7 35 m-Xylene & p-Xylene 0.200 0.2079 mg/Kg 104 70 - 130 10 35 0.100 0.1090 109 70 - 130 35 o-Xylene mg/Kg 8

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 102 70 - 130 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: 890-7732-A-21-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 104100 Prep Batch: 104125 Sample Sample Child Me Me % Pac

	Sample	Sample	Spike	IVIO	IVIO				70 KeC	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.1049		mg/Kg		105	70 - 130	
Toluene	<0.00199	U	0.100	0.1077		mg/Kg		108	70 - 130	
Ethylbenzene	<0.00199	U	0.100	0.1011		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1864		mg/Kg		93	70 - 130	
o-Xylene	<0.00199	U	0.100	0.09549		mg/Kg		95	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 106 70 - 130 1,4-Difluorobenzene (Surr) 103

Lab Sample ID: 890-7732-A-21-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Ratch: 10/100

Analysis Batch: 104100									Prep I	Batch: 1	04125
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1044	-	mg/Kg		104	70 - 130	0	35
Toluene	<0.00199	U	0.100	0.1025		mg/Kg		103	70 - 130	5	35
Ethylbenzene	< 0.00199	U	0.100	0.09600		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1742		mg/Kg		87	70 - 130	7	35
o-Xylene	<0.00199	U	0.100	0.08841		mg/Kg		88	70 - 130	8	35

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Prep Type: Total/NA

Limits

Job ID: 890-7731-1 Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

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

Lab Sample ID: 890-7732-A-21-D MSD

Matrix: Solid

Surrogate

Analysis Batch: 104100

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104125

MSD MSD %Recovery Qualifier

4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 103 70 - 130

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

Lab Sample ID: MB 880-104091/1-A

Matrix: Solid

Analysis Batch: 104093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104091

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 03/01/25 21:07 03/01/25 19:34 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/01/25 21:07 03/01/25 19:34 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/01/25 21:07 03/01/25 19:34

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 03/01/25 21:07 03/01/25 19:34 1-Chlorooctane 91 o-Terphenyl 87 70 - 130 03/01/25 21:07 03/01/25 19:34

Lab Sample ID: LCS 880-104091/2-A

Matrix: Solid

Analysis Batch: 104093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 104091**

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1370 mg/Kg 137 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1350 *+ mg/Kg 135 70 - 130 C10-C28)

Spike

Added

1000

1000

LCSD LCSD

Qualifier

Unit

mg/Kg

mg/Kg

Result

1165

1252

LCS LCS

%Recovery Surrogate Qualifier Limits 1-Chlorooctane 114 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: LCSD 880-104091/3-A

Matrix: Solid

(GRO)-C6-C10

Analyte

Analysis Batch: 104093

Gasoline Range Organics

Diesel Range Organics (Over

Client Sample ID: Lab Control Sample Dup

70 - 130

125

Prep Type: Total/NA

Prep Batch: 104091

8

20

%Rec RPD %Rec Limits RPD Limit 116 70 - 130 16 20

C10-C28) LCSD LCSD

%Recovery Surrogate Qualifier Limits 108 70 - 130 1-Chlorooctane 100 70 - 130 o-Terphenyl

Job ID: 890-7731-1 Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

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

Lab Sample ID: 890-7731-1 MS Client Sample ID: SW-01 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 104093 **Prep Batch: 104091**

Sample Sample Spike MS MS Result Qualifier Analyte babbA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U *+ 1000 899.3 mg/Kg 90 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over <49.8 U*+ 858.3 mg/Kg 83 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 92 o-Terphenyl 82 70 - 130

Lab Sample ID: 890-7731-1 MSD Client Sample ID: SW-01 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 104093

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.8 U *+ 1000 Gasoline Range Organics 878.1 mg/Kg 88 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U*+ 1000 851.4 mg/Kg 83 70 - 130 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 82 70 - 130

Lab Sample ID: MB 880-104097/1-A

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 104093 Prep Batch: 104097 MR MR

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac 50.0 03/01/25 21:42 <50.0 U 03/02/25 04:25 Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.0 03/01/25 21:42 03/02/25 04:25 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/01/25 21:42 03/02/25 04:25

MB MB Limits %Recovery Qualifier Prepared Dil Fac Surrogate Analyzed 70 - 130 03/01/25 21:42 1-Chlorooctane 03/02/25 04:25 108 70 - 130 03/01/25 21:42 03/02/25 04:25 o-Terphenyl 98

Lab Sample ID: LCS 880-104097/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 104093 Prep Batch: 104097

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1114		mg/Kg		111	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1007		mg/Kg		101	70 - 130
C10-C28)							

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Prep Batch: 104091

Job ID: 890-7731-1

SDG: 03C2359007

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

Lab Sample ID: LCS 880-104097/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 104093

Project/Site: Burtin Flats Line

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104097

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 o-Terphenyl 87 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104097

Lab Sample ID: LCSD 880-104097/3-A **Matrix: Solid**

Analysis Batch: 104093

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1026		mg/Kg		103	70 - 130	2	20

Diesel Range Organics (Over

LCSD LCSD Surrogate %Recovery Qualifier Limits 100 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 90

Lab Sample ID: 890-7731-21 MS Client Sample ID: FS-18 Matrix: Solid Prep Type: Total/NA

Analysis Batch: 104093 Prep Batch: 104097

MS MS

mg/Kg

85

70 - 130

855.7

Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 1010 904.1 mg/Kg 90 70 - 130 (GRO)-C6-C10

1010

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits

70 - 130 1-Chlorooctane 89 o-Terphenyl 77 70 - 130

<49.9 U

Lab Sample ID: 890-7731-21 MSD Client Sample ID: FS-18

Matrix: Solid Prep Type: Total/NA Analysis Batch: 104093 Prep Batch: 104097

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 1010 889.9 88 20 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1010 849.5 mg/Kg 84 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Limits 87 70 - 130

Surrogate 1-Chlorooctane o-Terphenyl 76 70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

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

Client Sample ID: Matrix Spike

Job ID: 890-7731-1 SDG: 03C2359007

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104036/1-A

Matrix: Solid

Analysis Batch: 104090

Project/Site: Burtin Flats Line

Client: Ensolum

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Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 03/01/25 20:14

Lab Sample ID: LCS 880-104036/2-A

Matrix: Solid

Analysis Batch: 104090

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 227.4 mg/Kg 91 90 - 110

Lab Sample ID: LCSD 880-104036/3-A

Matrix: Solid

Analysis Batch: 104090

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 228.3 250 mg/Kg 90 - 110

Lab Sample ID: 880-55054-A-24-B MS

Matrix: Solid

Analysis Batch: 104090

MS MS Spike %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 3030 1250 4374 108 90 - 110 mg/Kg

Lab Sample ID: 880-55054-A-24-C MSD

Matrix: Solid

Analysis Batch: 104090

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 3030 1250 4381 mg/Kg 108 90 - 110

Lab Sample ID: MB 880-104084/1-A

Matrix: Solid

Analysis Batch: 104174

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Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <10.0 10.0 mg/Kg 03/03/25 09:13

Lab Sample ID: LCS 880-104084/2-A

Matrix: Solid

Analysis Batch: 104174

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-104084/3-A

Matrix: Solid

Analysis Batch: 104174

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 256.3 mg/Kg 103 90 - 110 20

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3/3/2025

Chloride

Chloride

QC Sample Results

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line

SDG: 03C2359007

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Method: 300.0 - Anions, Ion Chromatography

79.7

79.7

177 F1

Lab Sample ID: 890-7731-5 MS Client Sample ID: FS-02 **Matrix: Solid Prep Type: Soluble** Analysis Batch: 104174

352.1

353.2

456.7 F1

mg/Kg

mg/Kg

mg/Kg

110

110

111

90 - 110

90 - 110

90 - 110

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 249

249

Lab Sample ID: 890-7731-5 MSD Client Sample ID: FS-02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104174 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit D %Rec

Lab Sample ID: 890-7731-15 MS Client Sample ID: FS-12 **Matrix: Solid Prep Type: Soluble** Analysis Batch: 104174

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

251

Lab Sample ID: 890-7731-15 MSD Client Sample ID: FS-12

Matrix: Solid Prep Type: Soluble Analysis Batch: 104174

MSD MSD Spike %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 177 F1 251 457.5 F1 112 90 - 110 20 mg/Kg

Client: Ensolum
Project/Site: Burtin Flats Line
Job ID: 890-7731-1
SDG: 03C2359007

GC VOA

Analysis Batch: 104100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-21	FS-18	Total/NA	Solid	8021B	104125
890-7731-22	FS-19	Total/NA	Solid	8021B	104125
890-7731-23	FS-20	Total/NA	Solid	8021B	104125
MB 880-104125/5-A	Method Blank	Total/NA	Solid	8021B	104125
LCS 880-104125/1-A	Lab Control Sample	Total/NA	Solid	8021B	104125
LCSD 880-104125/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104125
890-7732-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	104125
890-7732-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104125

Analysis Batch: 104114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-1	SW-01	Total/NA	Solid	8021B	104122
890-7731-2	SW-02	Total/NA	Solid	8021B	104122
890-7731-3	SW-03	Total/NA	Solid	8021B	104122
890-7731-4	FS-01	Total/NA	Solid	8021B	104122
890-7731-5	FS-02	Total/NA	Solid	8021B	104122
890-7731-6	FS-03	Total/NA	Solid	8021B	104122
890-7731-7	FS-04	Total/NA	Solid	8021B	104122
890-7731-8	FS-05	Total/NA	Solid	8021B	104122
890-7731-9	FS-06	Total/NA	Solid	8021B	104122
890-7731-10	FS-07	Total/NA	Solid	8021B	104122
890-7731-11	FS-08	Total/NA	Solid	8021B	104122
890-7731-12	FS-09	Total/NA	Solid	8021B	104122
890-7731-13	FS-10	Total/NA	Solid	8021B	104122
890-7731-14	FS-11	Total/NA	Solid	8021B	104122
890-7731-15	FS-12	Total/NA	Solid	8021B	104122
890-7731-16	FS-13	Total/NA	Solid	8021B	104122
890-7731-17	FS-14	Total/NA	Solid	8021B	104122
890-7731-18	FS-15	Total/NA	Solid	8021B	104122
890-7731-19	FS-16	Total/NA	Solid	8021B	104122
890-7731-20	FS-17	Total/NA	Solid	8021B	104122
MB 880-104122/5-A	Method Blank	Total/NA	Solid	8021B	104122
LCS 880-104122/1-A	Lab Control Sample	Total/NA	Solid	8021B	104122
LCSD 880-104122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104122
890-7731-1 MS	SW-01	Total/NA	Solid	8021B	104122
890-7731-1 MSD	SW-01	Total/NA	Solid	8021B	104122

Prep Batch: 104122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7731-1	SW-01	Total/NA	Solid	5035	
890-7731-2	SW-02	Total/NA	Solid	5035	
890-7731-3	SW-03	Total/NA	Solid	5035	
890-7731-4	FS-01	Total/NA	Solid	5035	
890-7731-5	FS-02	Total/NA	Solid	5035	
890-7731-6	FS-03	Total/NA	Solid	5035	
890-7731-7	FS-04	Total/NA	Solid	5035	
890-7731-8	FS-05	Total/NA	Solid	5035	
890-7731-9	FS-06	Total/NA	Solid	5035	
890-7731-10	FS-07	Total/NA	Solid	5035	
890-7731-11	FS-08	Total/NA	Solid	5035	
890-7731-12	FS-09	Total/NA	Solid	5035	

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Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

GC VOA (Continued)

Prep Batch: 104122 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-13	FS-10	Total/NA	Solid	5035	
890-7731-14	FS-11	Total/NA	Solid	5035	
890-7731-15	FS-12	Total/NA	Solid	5035	
890-7731-16	FS-13	Total/NA	Solid	5035	
890-7731-17	FS-14	Total/NA	Solid	5035	
890-7731-18	FS-15	Total/NA	Solid	5035	
890-7731-19	FS-16	Total/NA	Solid	5035	
890-7731-20	FS-17	Total/NA	Solid	5035	
MB 880-104122/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104122/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104122/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7731-1 MS	SW-01	Total/NA	Solid	5035	
890-7731-1 MSD	SW-01	Total/NA	Solid	5035	

Prep Batch: 104125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-21	FS-18	Total/NA	Solid	5035	
890-7731-22	FS-19	Total/NA	Solid	5035	
890-7731-23	FS-20	Total/NA	Solid	5035	
MB 880-104125/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104125/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104125/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7732-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7732-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 104163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7731-1	SW-01	Total/NA	Solid	Total BTEX	
890-7731-2	SW-02	Total/NA	Solid	Total BTEX	
890-7731-3	SW-03	Total/NA	Solid	Total BTEX	
890-7731-4	FS-01	Total/NA	Solid	Total BTEX	
390-7731-5	FS-02	Total/NA	Solid	Total BTEX	
890-7731-6	FS-03	Total/NA	Solid	Total BTEX	
390-7731-7	FS-04	Total/NA	Solid	Total BTEX	
890-7731-8	FS-05	Total/NA	Solid	Total BTEX	
890-7731-9	FS-06	Total/NA	Solid	Total BTEX	
390-7731-10	FS-07	Total/NA	Solid	Total BTEX	
390-7731-11	FS-08	Total/NA	Solid	Total BTEX	
390-7731-12	FS-09	Total/NA	Solid	Total BTEX	
890-7731-13	FS-10	Total/NA	Solid	Total BTEX	
890-7731-14	FS-11	Total/NA	Solid	Total BTEX	
890-7731-15	FS-12	Total/NA	Solid	Total BTEX	
890-7731-16	FS-13	Total/NA	Solid	Total BTEX	
890-7731-17	FS-14	Total/NA	Solid	Total BTEX	
890-7731-18	FS-15	Total/NA	Solid	Total BTEX	
890-7731-19	FS-16	Total/NA	Solid	Total BTEX	
890-7731-20	FS-17	Total/NA	Solid	Total BTEX	
890-7731-21	FS-18	Total/NA	Solid	Total BTEX	
390-7731-22	FS-19	Total/NA	Solid	Total BTEX	
890-7731-23	FS-20	Total/NA	Solid	Total BTEX	

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Client: EnsolumJob ID: 890-7731-1Project/Site: Burtin Flats LineSDG: 03C2359007

GC Semi VOA

Prep Batch: 104091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7731-1	SW-01	Total/NA	Solid	8015NM Prep	
890-7731-2	SW-02	Total/NA	Solid	8015NM Prep	
890-7731-3	SW-03	Total/NA	Solid	8015NM Prep	
890-7731-4	FS-01	Total/NA	Solid	8015NM Prep	
890-7731-5	FS-02	Total/NA	Solid	8015NM Prep	
890-7731-6	FS-03	Total/NA	Solid	8015NM Prep	
890-7731-7	FS-04	Total/NA	Solid	8015NM Prep	
890-7731-8	FS-05	Total/NA	Solid	8015NM Prep	
890-7731-9	FS-06	Total/NA	Solid	8015NM Prep	
890-7731-10	FS-07	Total/NA	Solid	8015NM Prep	
890-7731-11	FS-08	Total/NA	Solid	8015NM Prep	
890-7731-12	FS-09	Total/NA	Solid	8015NM Prep	
890-7731-13	FS-10	Total/NA	Solid	8015NM Prep	
890-7731-14	FS-11	Total/NA	Solid	8015NM Prep	
890-7731-15	FS-12	Total/NA	Solid	8015NM Prep	
890-7731-16	FS-13	Total/NA	Solid	8015NM Prep	
890-7731-17	FS-14	Total/NA	Solid	8015NM Prep	
890-7731-18	FS-15	Total/NA	Solid	8015NM Prep	
890-7731-19	FS-16	Total/NA	Solid	8015NM Prep	
890-7731-20	FS-17	Total/NA	Solid	8015NM Prep	
MB 880-104091/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104091/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104091/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7731-1 MS	SW-01	Total/NA	Solid	8015NM Prep	
890-7731-1 MSD	SW-01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-1	SW-01	Total/NA	Solid	8015B NM	104091
890-7731-2	SW-02	Total/NA	Solid	8015B NM	104091
890-7731-3	SW-03	Total/NA	Solid	8015B NM	104091
890-7731-4	FS-01	Total/NA	Solid	8015B NM	104091
890-7731-5	FS-02	Total/NA	Solid	8015B NM	104091
890-7731-6	FS-03	Total/NA	Solid	8015B NM	104091
890-7731-7	FS-04	Total/NA	Solid	8015B NM	104091
890-7731-8	FS-05	Total/NA	Solid	8015B NM	104091
890-7731-9	FS-06	Total/NA	Solid	8015B NM	104091
890-7731-10	FS-07	Total/NA	Solid	8015B NM	104091
890-7731-11	FS-08	Total/NA	Solid	8015B NM	104091
890-7731-12	FS-09	Total/NA	Solid	8015B NM	104091
890-7731-13	FS-10	Total/NA	Solid	8015B NM	104091
890-7731-14	FS-11	Total/NA	Solid	8015B NM	104091
890-7731-15	FS-12	Total/NA	Solid	8015B NM	104091
890-7731-16	FS-13	Total/NA	Solid	8015B NM	104091
890-7731-17	FS-14	Total/NA	Solid	8015B NM	104091
890-7731-18	FS-15	Total/NA	Solid	8015B NM	104091
890-7731-19	FS-16	Total/NA	Solid	8015B NM	104091
890-7731-20	FS-17	Total/NA	Solid	8015B NM	104091
890-7731-21	FS-18	Total/NA	Solid	8015B NM	104097
890-7731-22	FS-19	Total/NA	Solid	8015B NM	104097
890-7731-23	FS-20	Total/NA	Solid	8015B NM	104097

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Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

GC Semi VOA (Continued)

Analysis Batch: 104093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104091/1-A	Method Blank	Total/NA	Solid	8015B NM	104091
MB 880-104097/1-A	Method Blank	Total/NA	Solid	8015B NM	104097
LCS 880-104091/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104091
LCS 880-104097/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104097
LCSD 880-104091/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104091
LCSD 880-104097/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104097
890-7731-1 MS	SW-01	Total/NA	Solid	8015B NM	104091
890-7731-1 MSD	SW-01	Total/NA	Solid	8015B NM	104091
890-7731-21 MS	FS-18	Total/NA	Solid	8015B NM	104097
890-7731-21 MSD	FS-18	Total/NA	Solid	8015B NM	104097

Prep Batch: 104097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-21	FS-18	Total/NA	Solid	8015NM Prep	
890-7731-22	FS-19	Total/NA	Solid	8015NM Prep	
890-7731-23	FS-20	Total/NA	Solid	8015NM Prep	
MB 880-104097/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104097/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104097/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7731-21 MS	FS-18	Total/NA	Solid	8015NM Prep	
890-7731-21 MSD	FS-18	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-7731-1	SW-01	Total/NA	Solid	8015 NM	
890-7731-2	SW-02	Total/NA	Solid	8015 NM	
890-7731-3	SW-03	Total/NA	Solid	8015 NM	
890-7731-4	FS-01	Total/NA	Solid	8015 NM	
890-7731-5	FS-02	Total/NA	Solid	8015 NM	
890-7731-6	FS-03	Total/NA	Solid	8015 NM	
890-7731-7	FS-04	Total/NA	Solid	8015 NM	
890-7731-8	FS-05	Total/NA	Solid	8015 NM	
890-7731-9	FS-06	Total/NA	Solid	8015 NM	
890-7731-10	FS-07	Total/NA	Solid	8015 NM	
890-7731-11	FS-08	Total/NA	Solid	8015 NM	
890-7731-12	FS-09	Total/NA	Solid	8015 NM	
890-7731-13	FS-10	Total/NA	Solid	8015 NM	
890-7731-14	FS-11	Total/NA	Solid	8015 NM	
890-7731-15	FS-12	Total/NA	Solid	8015 NM	
890-7731-16	FS-13	Total/NA	Solid	8015 NM	
890-7731-17	FS-14	Total/NA	Solid	8015 NM	
890-7731-18	FS-15	Total/NA	Solid	8015 NM	
890-7731-19	FS-16	Total/NA	Solid	8015 NM	
890-7731-20	FS-17	Total/NA	Solid	8015 NM	
890-7731-21	FS-18	Total/NA	Solid	8015 NM	
890-7731-22	FS-19	Total/NA	Solid	8015 NM	
890-7731-23	FS-20	Total/NA	Solid	8015 NM	

Client: Ensolum

Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

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Leach Batch: 104036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-1	SW-01	Soluble	Solid	DI Leach	
890-7731-2	SW-02	Soluble	Solid	DI Leach	
890-7731-3	SW-03	Soluble	Solid	DI Leach	
890-7731-4	FS-01	Soluble	Solid	DI Leach	
MB 880-104036/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104036/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104036/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55054-A-24-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-55054-A-24-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 104084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-5	FS-02	Soluble	Solid	DI Leach	
890-7731-6	FS-03	Soluble	Solid	DI Leach	
890-7731-7	FS-04	Soluble	Solid	DI Leach	
890-7731-8	FS-05	Soluble	Solid	DI Leach	
890-7731-9	FS-06	Soluble	Solid	DI Leach	
890-7731-10	FS-07	Soluble	Solid	DI Leach	
890-7731-11	FS-08	Soluble	Solid	DI Leach	
890-7731-12	FS-09	Soluble	Solid	DI Leach	
890-7731-13	FS-10	Soluble	Solid	DI Leach	
890-7731-14	FS-11	Soluble	Solid	DI Leach	
890-7731-15	FS-12	Soluble	Solid	DI Leach	
890-7731-16	FS-13	Soluble	Solid	DI Leach	
890-7731-17	FS-14	Soluble	Solid	DI Leach	
890-7731-18	FS-15	Soluble	Solid	DI Leach	
890-7731-19	FS-16	Soluble	Solid	DI Leach	
890-7731-20	FS-17	Soluble	Solid	DI Leach	
890-7731-21	FS-18	Soluble	Solid	DI Leach	
890-7731-22	FS-19	Soluble	Solid	DI Leach	
890-7731-23	FS-20	Soluble	Solid	DI Leach	
MB 880-104084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7731-5 MS	FS-02	Soluble	Solid	DI Leach	
890-7731-5 MSD	FS-02	Soluble	Solid	DI Leach	
890-7731-15 MS	FS-12	Soluble	Solid	DI Leach	
890-7731-15 MSD	FS-12	Soluble	Solid	DI Leach	

Analysis Batch: 104090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-1	SW-01	Soluble	Solid	300.0	104036
890-7731-2	SW-02	Soluble	Solid	300.0	104036
890-7731-3	SW-03	Soluble	Solid	300.0	104036
890-7731-4	FS-01	Soluble	Solid	300.0	104036
MB 880-104036/1-A	Method Blank	Soluble	Solid	300.0	104036
LCS 880-104036/2-A	Lab Control Sample	Soluble	Solid	300.0	104036
LCSD 880-104036/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104036
880-55054-A-24-B MS	Matrix Spike	Soluble	Solid	300.0	104036
880-55054-A-24-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	104036

Client: EnsolumJob ID: 890-7731-1Project/Site: Burtin Flats LineSDG: 03C2359007

HPLC/IC

Analysis Batch: 104174

890-7731-15 MSD

FS-12

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7731-5	FS-02	Soluble	Solid	300.0	104084
890-7731-6	FS-03	Soluble	Solid	300.0	104084
890-7731-7	FS-04	Soluble	Solid	300.0	104084
890-7731-8	FS-05	Soluble	Solid	300.0	104084
890-7731-9	FS-06	Soluble	Solid	300.0	104084
890-7731-10	FS-07	Soluble	Solid	300.0	104084
890-7731-11	FS-08	Soluble	Solid	300.0	104084
890-7731-12	FS-09	Soluble	Solid	300.0	104084
890-7731-13	FS-10	Soluble	Solid	300.0	104084
890-7731-14	FS-11	Soluble	Solid	300.0	104084
890-7731-15	FS-12	Soluble	Solid	300.0	104084
890-7731-16	FS-13	Soluble	Solid	300.0	104084
890-7731-17	FS-14	Soluble	Solid	300.0	104084
890-7731-18	FS-15	Soluble	Solid	300.0	104084
890-7731-19	FS-16	Soluble	Solid	300.0	104084
890-7731-20	FS-17	Soluble	Solid	300.0	104084
890-7731-21	FS-18	Soluble	Solid	300.0	104084
890-7731-22	FS-19	Soluble	Solid	300.0	104084
890-7731-23	FS-20	Soluble	Solid	300.0	104084
MB 880-104084/1-A	Method Blank	Soluble	Solid	300.0	104084
LCS 880-104084/2-A	Lab Control Sample	Soluble	Solid	300.0	104084
LCSD 880-104084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104084
890-7731-5 MS	FS-02	Soluble	Solid	300.0	104084
890-7731-5 MSD	FS-02	Soluble	Solid	300.0	104084
890-7731-15 MS	FS-12	Soluble	Solid	300.0	104084

Soluble

Solid

300.0

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104084

Date Received: 02/28/25 15:10

Job ID: 890-7731-1

Client: Ensolum SDG: 03C2359007 Project/Site: Burtin Flats Line

Client Sample ID: SW-01 Lab Sample ID: 890-7731-1 Date Collected: 02/28/25 13:14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 19:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/01/25 21:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/01/25 21:45	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104036	03/01/25 16:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104090	03/03/25 14:20	CH	EET MID

Client Sample ID: SW-02 Lab Sample ID: 890-7731-2

Date Collected: 02/28/25 13:17 Matrix: Solid Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/01/25 22:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/01/25 22:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104036	03/01/25 16:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104090	03/03/25 14:26	CH	EET MID

Client Sample ID: SW-03 Lab Sample ID: 890-7731-3 Date Collected: 02/28/25 13:19 **Matrix: Solid**

Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 20:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 20:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/01/25 22:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/01/25 22:43	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104036	03/01/25 16:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104090	03/03/25 14:32	CH	EET MID

Client Sample ID: FS-01 Lab Sample ID: 890-7731-4 Date Collected: 02/28/25 12:05 **Matrix: Solid**

Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 20:29	AJ	EET MID

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Date Received: 02/28/25 15:10

Soluble

Analysis

300.0

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-01 Lab Sample ID: 890-7731-4 Date Collected: 02/28/25 12:05

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 104160 03/01/25 22:58 EET MID Analysis AJ Total/NA Prep 8015NM Prep 10.04 g 10 mL 104091 03/01/25 21:07 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 104093 03/01/25 22:58 TKC **EET MID** 03/01/25 16:24 Soluble Leach DI Leach 4.96 g 50 mL 104036 SMC **EET MID** Soluble Analysis 300.0 1 50 mL 50 mL 104090 03/03/25 14:39 СН **EET MID**

Client Sample ID: FS-02 Lab Sample ID: 890-7731-5

Date Collected: 02/28/25 12:07 **Matrix: Solid** Date Received: 02/28/25 15:10

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number or Analyzed **Prep Type** Type Run Factor Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 104122 03/02/25 08:11 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 104114 03/02/25 20:49 MNR EET MID 1 Total/NA Analysis Total BTEX 1 104163 03/02/25 20:49 AJ **EET MID** Total/NA 8015 NM 104160 03/01/25 23:13 EET MID Analysis AJ 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 104091 03/01/25 21:07 TKC **EET MID** Total/NA 8015B NM 1 uL 104093 03/01/25 23:13 TKC **EET MID** Analysis 1 uL Soluble Leach DI Leach 5.03 g 50 mL 104084 03/01/25 16:29 SMC **EET MID**

Client Sample ID: FS-03 Lab Sample ID: 890-7731-6

1

Date Collected: 02/28/25 12:08 **Matrix: Solid** Date Received: 02/28/25 15:10

50 mL

50 mL

104174

03/03/25 09:30

СН

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 21:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/01/25 23:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/01/25 23:28	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 09:48	CH	EET MID

Client Sample ID: FS-04 Lab Sample ID: 890-7731-7

Date Collected: 02/28/25 12:10 **Matrix: Solid** Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 21:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/01/25 23:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/01/25 23:43	TKC	EET MID

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EET MID

Job ID: 890-7731-1

SDG: 03C2359007

Project/Site: Burtin Flats Line **Client Sample ID: FS-04**

Client: Ensolum

Soluble

Analysis

300.0

Lab Sample ID: 890-7731-7

Matrix: Solid

Date Collected: 02/28/25 12:10 Date Received: 02/28/25 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 09:54	CH	EET MID

Lab Sample ID: 890-7731-8

03/03/25 10:00

СН

Matrix: Solid

EET MID

Client Sample ID: FS-05 Date Collected: 02/28/25 12:12 Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 21:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 21:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/01/25 23:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/01/25 23:57	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	104084	03/01/25 16:29	SMC	EET MID

Client Sample ID: FS-06 Lab Sample ID: 890-7731-9

1

50 mL

50 mL

104174

Date Collected: 02/28/25 12:14 **Matrix: Solid**

Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 22:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 22:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 00:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 00:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 10:06	CH	EET MID

Client Sample ID: FS-07 Lab Sample ID: 890-7731-10

Date Collected: 02/28/25 12:16 **Matrix: Solid** Date Received: 02/28/25 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/02/25 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 22:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 00:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 00:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 10:23	CH	EET MID

Lab Sample ID: 890-7731-11

Date Collected: 02/28/25 12:17 Date Received: 02/28/25 15:10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104122	03/02/25 08:11	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 00:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 00:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 00:57	TKC	EET MIC
Soluble	Leach	DI Leach			4.96 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 10:29	CH	EET MID

Lab Sample ID: 890-7731-12

Matrix: Solid

Date Collected: 02/28/25 12:30 Date Received: 02/28/25 15:10

Client Sample ID: FS-09

	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	104122	03/02/25 08:11	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 00:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 01:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	104091	03/01/25 21:07	TKC	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 01:13	TKC	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 10:35	CH	EET MID

Client Sample ID: FS-10

Date Collected: 02/28/25 12:31 Date Received: 02/28/25 15:10 Lab Sample ID: 890-7731-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 01:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 01:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 01:27	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 10:41	CH	EET MID

Client Sample ID: FS-11

Date Collected: 02/28/25 12:33 Date Received: 02/28/25 15:10 Lab Sample ID: 890-7731-14

Matrix: Solid

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 01:23	AJ	EET MID

Client: Ensolum Job ID: 890-7731-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-11 Lab Sample ID: 890-7731-14 Date Collected: 02/28/25 12:33

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 104160 Analysis 03/02/25 01:42 AJ EET MID Total/NA Prep 8015NM Prep 10.09 g 10 mL 104091 03/01/25 21:07 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 104093 03/02/25 01:42 TKC EET MID 50 mL Soluble 104084 03/01/25 16:29 SMC EET MID Leach DI Leach 4.97 g 104174 03/03/25 10:47 Soluble Analysis 300.0 1 50 mL 50 mL СН **EET MID**

Client Sample ID: FS-12 Lab Sample ID: 890-7731-15

Date Collected: 02/28/25 12:34 **Matrix: Solid**

Date Received: 02/28/25 15:10

Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 01:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 01:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 01:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 10:53	CH	EET MID

Client Sample ID: FS-13 Lab Sample ID: 890-7731-16

Date Collected: 02/28/25 12:37 **Matrix: Solid** Date Received: 02/28/25 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 02:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 02:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 02:12	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 11:10	CH	EET MID

Client Sample ID: FS-14 Lab Sample ID: 890-7731-17

Date Collected: 02/28/25 12:38 Date Received: 02/28/25 15:10

_	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 02:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 02:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 02:27	TKC	EET MID

Eurofins Carlsbad

Released to Imaging: 8/26/2025 3:13:09 PM

Matrix: Solid

Date Received: 02/28/25 15:10

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-14 Lab Sample ID: 890-7731-17 Date Collected: 02/28/25 12:38

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 104084 SMC Leach 5.01 g 50 mL 03/01/25 16:29 EET MID 300.0 03/03/25 11:16 Soluble Analysis 1 50 mL 50 mL 104174 СН **EET MID**

Client Sample ID: FS-15 Lab Sample ID: 890-7731-18

Date Collected: 02/28/25 12:41 **Matrix: Solid**

Date Received: 02/28/25 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 02:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 02:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 02:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 11:34	CH	EET MID

Client Sample ID: FS-16 Lab Sample ID: 890-7731-19

Date Collected: 02/28/25 12:43 **Matrix: Solid** Date Received: 02/28/25 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 03:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 02:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 02:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 11:40	CH	EET MID

Client Sample ID: FS-17 Lab Sample ID: 890-7731-20

Date Collected: 02/28/25 12:46 **Matrix: Solid** Date Received: 02/28/25 15:10

	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	104122	03/02/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104114	03/03/25 03:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/03/25 03:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 03:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	104091	03/01/25 21:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 03:11	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 11:45	CH	EET MID

Job ID: 890-7731-1

Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS-18 Lab Sample ID: 890-7731-21 Date Collected: 02/28/25 12:48 **Matrix: Solid**

Date Received: 02/28/25 15:10

	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	104125	03/02/25 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104100	03/02/25 21:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 21:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 05:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	104097	03/01/25 21:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 05:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	104084	03/01/25 16:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 11:51	CH	EET MID

Lab Sample ID: 890-7731-22 Client Sample ID: FS-19 Date Collected: 02/28/25 12:50 **Matrix: Solid**

Date Received: 02/28/25 15:10

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.96 g 5 mL 104125 03/02/25 08:16 MNR EET MID 8021B Total/NA 5 mL 03/02/25 21:28 MNR **EET MID** Analysis 1 5 mL 104100 Total/NA Total BTEX 104163 03/02/25 21:28 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 104160 03/02/25 05:54 **EET MID** Total/NA 8015NM Prep 104097 03/01/25 21:43 TKC Prep 9.90 g 10 mL EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 104093 03/02/25 05:54 TKC **EET MID** Soluble 03/01/25 16:29 Leach DI Leach 5.00 g 50 mL 104084 SMC EET MID Soluble Analysis 300.0 50 mL 50 mL 104174 03/03/25 11:57 СН **EET MID**

Lab Sample ID: 890-7731-23 **Client Sample ID: FS-20** Date Collected: 02/28/25 12:52 **Matrix: Solid**

Date Received: 02/28/25 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	4.98 g	5 mL	104125	03/02/25 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104100	03/02/25 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104163	03/02/25 23:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			104160	03/02/25 06:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	104097	03/01/25 21:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	104093	03/02/25 06:08	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	104084	03/01/25 16:29	SMC	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	104174	03/03/25 12:03	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-7731-1
Project/Site: Burtin Flats Line SDG: 03C2359007

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	P	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Job ID: 890-7731-1 Client: Ensolum Project/Site: Burtin Flats Line

SDG: 03C2359007

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

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Sample Summary

Client: Ensolum

Project/Site: Burtin Flats Line

Job ID: 890-7731-1

SDG: 03C2359007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7731-1	SW-01	Solid	02/28/25 13:14	02/28/25 15:10	0-2
890-7731-2	SW-02	Solid	02/28/25 13:17	02/28/25 15:10	0-2
890-7731-3	SW-03	Solid	02/28/25 13:19	02/28/25 15:10	0-2
890-7731-4	FS-01	Solid	02/28/25 12:05	02/28/25 15:10	2
890-7731-5	FS-02	Solid	02/28/25 12:07	02/28/25 15:10	2
890-7731-6	FS-03	Solid	02/28/25 12:08	02/28/25 15:10	2
890-7731-7	FS-04	Solid	02/28/25 12:10	02/28/25 15:10	2
890-7731-8	FS-05	Solid	02/28/25 12:12	02/28/25 15:10	2
890-7731-9	FS-06	Solid	02/28/25 12:14	02/28/25 15:10	2
890-7731-10	FS-07	Solid	02/28/25 12:16	02/28/25 15:10	2
890-7731-11	FS-08	Solid	02/28/25 12:17	02/28/25 15:10	2
890-7731-12	FS-09	Solid	02/28/25 12:30	02/28/25 15:10	2
890-7731-13	FS-10	Solid	02/28/25 12:31	02/28/25 15:10	2
890-7731-14	FS-11	Solid	02/28/25 12:33	02/28/25 15:10	2
890-7731-15	FS-12	Solid	02/28/25 12:34	02/28/25 15:10	2
890-7731-16	FS-13	Solid	02/28/25 12:37	02/28/25 15:10	2
890-7731-17	FS-14	Solid	02/28/25 12:38	02/28/25 15:10	2
890-7731-18	FS-15	Solid	02/28/25 12:41	02/28/25 15:10	2
890-7731-19	FS-16	Solid	02/28/25 12:43	02/28/25 15:10	2
890-7731-20	FS-17	Solid	02/28/25 12:46	02/28/25 15:10	2
890-7731-21	FS-18	Solid	02/28/25 12:48	02/28/25 15:10	2
890-7731-22	FS-19	Solid	02/28/25 12:50	02/28/25 15:10	2
890-7731-23	FS-20	Solid	02/28/25 12:52	02/28/25 15:10	1

	Environment essent		Midland X 43-5) - (14-5-44) - 54-100110 - X 5-111-119-5	0 X (7) 111-5(10-2332)		
	Xenco	2	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	TX (806) 794-1296 NM (575) 988-3199	830-773	131 Chain of Custody 3
Project Manager:	JEREMY REICH	Bill to: (if different)	ent) EnsoluM, U.C.	77,	work Orc	work Order Comments
Company Name:	En So M/M, LLC	Company Name			Program: UST/PST	Brownfields ☐ RRC ☐ Superfund [
	22 M. Frank Pa	٧٧		St	State of Project:	
City, State ZIP:	W.	S&みつし City, State ZIP:		R	Reporting: Level III PST/UST TRRP	PST/UST TRRP L Level IV
	6-0627	Email: TPeiche	MSOLUM, COM	MSALVIS QUASOIUM, COM DE	Deliverables: EDD	ADaPT ☐ Other:
Project Name:	PINCTIN Clats line	C Turn Around		ANALYSIS REQUEST		Preservative Codes
er:	59007	Rout	Code (CO) (CO)			None: NO DI Water: H ₂ O
Project Location:	32.58607-104.143416	416 Due Date: 3/3/25				Cool: Cool MeOH: Me
er's Name:	Mahio Sorthis	TAT starts the				HCL: HC HNO 3: HN
#: #:	ľ	+	Т			
SAMPLE RECEIPT	Blank:	et Ice:	Τ,			H ₃ PO ₄ : HP
Samples Received Intact:	°N		nere			NaHSO 4: NABIS
Cooler Custody Seals:	Yes No (N/K Correc	1				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No (I/) Tempe	7	JO H E			Zn Acetate+NaOH: Zn
Total Containers:	Correc	Corrected Temperature: 2. 4	0			NaOH+Ascorbic Acid: SAPC
337 - F1 - 13		Time	1 1 10 10# 19			Juommo) o danc
Sample Identification	Matrix	ίλ.				Sample Comments
SWOI	S 23835	8/25 1314 O-2 (1 000			
Swoa	5	1317 0-3 C	/ / /			
5 WO 3	5	1319 0-2 6	/ / /			
F501	>	+	1 / / /			
F502		1202 3 6	1 / 1			
6503	1 5	J 6 8081	1 / / /			
FSOY	5) E 0/E1	1 / / /			
F505	5	7 E E/E/	155			
F506	5	1214 2 C	7 7 1			
\$ F307	> \	1316 2 6				
Total 200.7 / 6010	Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11	ıı ≍	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TRA Sh As Ba Re Cd Cr Co Cu Ph Mn Mo Ni Se An Tl U	Se Ag SiO ₂ Ha: 1631 /	Na Sr Tl Sn U V Zn 245.1 / 7470 / 7471
rice: Signature of this document service. Eurofins Xenco will be lia Eurofins Xenco. A minimum chan	and relinquishment of samples constitution of samples and stable only for the cost of samples and stage of \$85.00 will be applied to each pr	utes a valid purchase order from client comp nall not assume any responsibility for any loss oject and a charge of \$5 for each sample sub	nany to Eurofins Xenco, its affiliates and ses or expenses incurred by the client if simitted to Eurofins Xenco, but not analy	Notice: Signature of this document and relinquishment of samples on stitutes 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	tiated.	
Relinquished by: (Signature)	nature) Recei	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	nature) Date/Time
Man	aleh	hw	228/25 15:10	2		
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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-7731-1

 SDG Number: 03C2359007

Login Number: 7731 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7731-1 SDG Number: 03C2359007

Login Number: 7731 **List Source: Eurofins Midland** List Number: 2

List Creation: 03/02/25 03:21 PM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/13/2025 11:30:45 AM

JOB DESCRIPTION

Burtin Flats Line 03C2359007

JOB NUMBER

890-7782-1

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 3/13/2025 11:30:45 AM

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 Laboratory Job ID: 890-7782-1 Project/Site: Burtin Flats Line SDG: 03C2359007

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Definitions/Glossary

Job ID: 890-7782-1 Client: Ensolum Project/Site: Burtin Flats Line

SDG: 03C2359007

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

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 Quantitation Limit

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

NC Not Calculated

MQL

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

Case Narrative

Client: Ensolum Job ID: 890-7782-1

Project: Burtin Flats Line

Job ID: 890-7782-1 Eurofins Carlsbad

Job Narrative 890-7782-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/7/2025 9:16 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS 15A (890-7782-1).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 15A (890-7782-1), (CCV 880-104839/20), (CCV 880-104839/33), (880-55391-A-1-D) and (880-55391-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-105110 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-105110/30) and (CCV 880-105110/56).

Passing CCV within 12 hours and 20 samples; Samples to be reported

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104820 and analytical batch 880-105110 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.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104808 and analytical batch 880-104836 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.

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: 890-7782-1

Client Sample Results

Client: EnsolumJob ID: 890-7782-1Project/Site: Burtin Flats LineSDG: 03C2359007

Client Sample ID: FS 15A

Date Collected: 03/07/25 08:25 Date Received: 03/07/25 09:16

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/10/25 09:16	03/10/25 19:57	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/10/25 09:16	03/10/25 19:57	1
Ethylbenzene	< 0.00109	U	0.00200	0.00109	mg/Kg		03/10/25 09:16	03/10/25 19:57	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/10/25 09:16	03/10/25 19:57	1
o-Xylene	< 0.00159	U	0.00200	0.00159	mg/Kg		03/10/25 09:16	03/10/25 19:57	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/10/25 09:16	03/10/25 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				03/10/25 09:16	03/10/25 19:57	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/10/25 09:16	03/10/25 19:57	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/10/25 19:57	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/13/25 01:19	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<14.5	U	50.0	14.5	mg/Kg		03/09/25 21:07	03/13/25 01:19	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<15.1	U	50.0	15.1	mg/Kg		03/09/25 21:07	03/13/25 01:19	1
C10-C28)									
•	<15.1	U	50.0	15.1	mg/Kg		03/09/25 21:07	03/13/25 01:19	1
C10-C28) Oil Range Organics (Over C28-C36) Total TPH	<15.1 <15.1		50.0 50.0		mg/Kg mg/Kg		03/09/25 21:07 03/09/25 21:07	03/13/25 01:19 03/13/25 01:19	1
Oil Range Organics (Over C28-C36)		U							
Oil Range Organics (Over C28-C36) Total TPH	<15.1	U	50.0				03/09/25 21:07	03/13/25 01:19	1
Oil Range Organics (Over C28-C36) Total TPH Surrogate	<15.1	U	50.0				03/09/25 21:07 Prepared	03/13/25 01:19 Analyzed	Dil Fac
Oil Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<15.1 **Recovery 76 78	Qualifier	50.0 Limits 70 - 130 70 - 130				03/09/25 21:07 Prepared 03/09/25 21:07	03/13/25 01:19 Analyzed 03/13/25 01:19	Dil Fac
Oil Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 76 78 Chromatograp	Qualifier	50.0 Limits 70 - 130 70 - 130		mg/Kg	D	03/09/25 21:07 Prepared 03/09/25 21:07	03/13/25 01:19 Analyzed 03/13/25 01:19	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-7782-1
Project/Site: Burtin Flats Line SDG: 03C2359007

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
	BFB1	DFBZ1	
Client Sample ID	(70-130)	(70-130)	
Matrix Spike	130	90	
Matrix Spike Duplicate	135 S1+	89	
FS 15A	137 S1+	85	
Lab Control Sample	128	93	
Lab Control Sample Dup	126	91	
Method Blank	115	79	
zene (Surr)			
	Matrix Spike Matrix Spike Duplicate FS 15A Lab Control Sample Lab Control Sample Dup Method Blank	Matrix Spike 130 Matrix Spike Duplicate 135 S1+ FS 15A 137 S1+ Lab Control Sample 128 Lab Control Sample Dup 126 Method Blank 115 tene (Surr)	Matrix Spike 130 90 Matrix Spike Duplicate 135 S1+ 89 FS 15A 137 S1+ 85 Lab Control Sample 128 93 Lab Control Sample Dup 126 91 Method Blank 115 79

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-55391-A-13-B MS	Matrix Spike	78	77	
880-55391-A-13-C MSD	Matrix Spike Duplicate	78	77	
890-7782-1	FS 15A	76	78	
LCS 880-104820/2-A	Lab Control Sample	111	110	
LCSD 880-104820/3-A	Lab Control Sample Dup	110	109	
MB 880-104820/1-A	Method Blank	75	79	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-7782-1 SDG: 03C2359007 Project/Site: Burtin Flats Line

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104846/5-A

Matrix: Solid

Analysis Batch: 104839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104846

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/10/25 09:16	03/10/25 12:56	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/10/25 09:16	03/10/25 12:56	1
Ethylbenzene	< 0.00109	U	0.00200	0.00109	mg/Kg		03/10/25 09:16	03/10/25 12:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/10/25 09:16	03/10/25 12:56	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/10/25 09:16	03/10/25 12:56	1
Xylenes, Total	< 0.00229	U	0.00400	0.00229	mg/Kg		03/10/25 09:16	03/10/25 12:56	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/10/25 09:16	03/10/25 12:56	1
1,4-Difluorobenzene (Surr)	79		70 - 130	03/10/25 09:16	03/10/25 12:56	1

Lab Sample ID: LCS 880-104846/1-A

Matrix: Solid

Analysis Batch: 104839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104846

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	
Toluene	0.100	0.1035		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2254		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-104846/2-A

Matrix: Solid

Analysis Batch: 104839

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

Prep Batch: 104846

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	4	35	
Toluene	0.100	0.1039		mg/Kg		104	70 - 130	0	35	
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130	4	35	
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-55391-A-1-B MS

Matrix: Solid

Analysis Batch: 104839

Client	Sample	ID:	Matrix	S	pike
	_	_	_		

Prep Type: Total/NA

Prep Batch: 104846

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00138	U	0.0996	0.09686		mg/Kg		97	70 - 130	
Toluene	<0.00198	U	0.0996	0.1013		mg/Kg		102	70 - 130	

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Client: Ensolum Project/Site: Burtin Flats Line

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Job ID: 890-7782-1

SDG: 03C2359007

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

Lab Sample ID: 880-55391-A-1-B MS

Lab Sample ID: 880-55391-A-1-C MSD

Matrix: Solid

Analysis Batch: 104839

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Matrix: Solid

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 104846

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00108	U	0.0996	0.09822		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00227	U	0.199	0.2152		mg/Kg		108	70 - 130	
o-Xylene	<0.00157	U	0.0996	0.1050		mg/Kg		105	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 104846

Analysis Batch: 104839 Sample Sample Spike MSD MSD %Rec Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00138 U 0.101 0.09043 mg/Kg 90 70 - 130 7 35 Toluene <0.00198 U 0.101 0.09466 mg/Kg 94 70 - 130 35 Ethylbenzene <0.00108 U 0.101 0.09226 92 70 - 130 35 mg/Kg 6 0.202 0.2005 70 - 130 35 m-Xylene & p-Xylene <0.00227 U mg/Kg 99 <0.00157 U 0.101 0.09865 98 70 - 130 o-Xylene mg/Kg 6

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-104820/1-A **Matrix: Solid**

Analysis Batch: 105110

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

Prep Batch: 104820

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<14.5	U	50.0	14.5	mg/Kg		03/09/25 21:07	03/12/25 19:25	1
(GRO)-C6-C10	4-4		50.0		".		00/00/05 04 05	00/40/05 40 05	
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/09/25 21:07	03/12/25 19:25	1
Oil Range Organics (Over C28-C36)	<15.1	П	50.0	15 1	mg/Kg		03/09/25 21:07	03/12/25 19:25	1
Total TPH	<15.1		50.0		mg/Kg		03/09/25 21:07	03/12/25 19:25	
IOIAI IFII	\10.1	U	30.0	13.1	mg/rtg		03/03/23 21.07	03/12/23 19.23	

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pro	repared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	03/09	9/25 21:07	03/12/25 19:25	1
o-Terphenyl	79		70 - 130	03/09	9/25 21:07	03/12/25 19:25	1

Lab Sample ID: LCS 880-104820/2-A

Matrix: Solid

Analysis Batch: 105110

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

Prep Batch: 104820

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec Gasoline Range Organics 1000 989.2 99 70 - 130 mg/Kg

(GRO)-C6-C10

Client: Ensolum Job ID: 890-7782-1 Project/Site: Burtin Flats Line SDG: 03C2359007

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

Lab Sample ID: LCS 880-104820/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 105110			Prep Batch: 104820
	Snika	100 100	9/ Poo

	Spike	LUS	LUS			70Rec
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Diesel Range Organics (Over	1000	1104	mg/Kg		110	70 - 130
C10-C28)						

	LCS LCS			
Surrogate	%Recovery Qualifier	Limits		
1-Chlorooctane	111	70 - 130		
o-Terphenyl	110	70 - 130		

Lab Sample ID: LCSD 880-104820/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 105110 **Prep Batch: 104820**

Spike LCSD LCSD RPD %Rec Result Qualifier Limit Analyte Added Unit %Rec Limits RPD 1000 958.0 96 70 - 130 3 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1069 mg/Kg 107 70 - 130 3 20

C10-C28)

	LCSD LCSL	,
Surrogate	%Recovery Qual	ifier Limits
1-Chlorooctane	110	70 - 130
o-Terphenyl	109	70 - 130

Lab Sample ID: 880-55391-A-13-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 105110 **Prep Batch: 104820** Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <14.4 U F1 1000 665.3 F1 mg/Kg 67 70 - 130 (GRO)-C6-C10 <15.0 U F1 1000 694.2 F1 69 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

C10-C26)			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	77		70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 880-55391-A-13-C MSD Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 105110 **Prep Batch: 104820** Sample Sample Spike MSD MSD %Rec RPD

Analyte Result Qualifier Added Result Qualifier RPD Limit Unit D %Rec Limits Gasoline Range Organics <14.4 U F1 1000 667.4 F1 mg/Kg 67 70 - 130 20 (GRO)-C6-C10 1000 <15.0 U F1 693.3 F1 69 70 - 130 20 Diesel Range Organics (Over mg/Kg 0 C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	77		70 - 130

Client: Ensolum Job ID: 890-7782-1 Project/Site: Burtin Flats Line

SDG: 03C2359007

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104808/1-A

Matrix: Solid

Analysis Batch: 104836

Prep Type: Soluble мв мв

Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <0.395 U 10.0 0.395 mg/Kg 03/10/25 08:55

Lab Sample ID: LCS 880-104808/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104836

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-104808/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104836

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 248.3 mg/Kg 90 - 110

Lab Sample ID: 880-55382-A-5-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104836

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 2590 2500 5649 F1 122 90 - 110 mg/Kg

Lab Sample ID: 880-55382-A-5-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 104836

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 2590 F1 2500 5671 F1 Chloride mg/Kg 123 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 890-7782-1
Project/Site: Burtin Flats Line SDG: 03C2359007

GC VOA

Analysis Batch: 104839

Lab Sample ID 890-7782-1	Client Sample ID FS 15A	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 104846
MB 880-104846/5-A	Method Blank	Total/NA	Solid	8021B	104846
LCS 880-104846/1-A	Lab Control Sample	Total/NA	Solid	8021B	104846
LCSD 880-104846/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104846
880-55391-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	104846
880-55391-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	104846

Prep Batch: 104846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Total/NA	Solid	5035	
MB 880-104846/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104846/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104846/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-55391-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-55391-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 105036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 104820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Total/NA	Solid	8015NM Prep	
MB 880-104820/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104820/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55391-A-13-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-55391-A-13-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Total/NA	Solid	8015B NM	104820
MB 880-104820/1-A	Method Blank	Total/NA	Solid	8015B NM	104820
LCS 880-104820/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104820
LCSD 880-104820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104820
880-55391-A-13-B MS	Matrix Spike	Total/NA	Solid	8015B NM	104820
880-55391-A-13-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	104820

Analysis Batch: 105228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 104808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Soluble	Solid	DI Leach	
MB 880-104808/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104808/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104808/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum Job ID: 890-7782-1
Project/Site: Burtin Flats Line SDG: 03C2359007

HPLC/IC (Continued)

Leach Batch: 104808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55382-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-55382-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 104836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7782-1	FS 15A	Soluble	Solid	300.0	104808
MB 880-104808/1-A	Method Blank	Soluble	Solid	300.0	104808
LCS 880-104808/2-A	Lab Control Sample	Soluble	Solid	300.0	104808
LCSD 880-104808/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104808
880-55382-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	104808
880-55382-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	104808

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Lab Chronicle

Client: Ensolum Job ID: 890-7782-1 Project/Site: Burtin Flats Line SDG: 03C2359007

Client Sample ID: FS 15A

Date Received: 03/07/25 09:16

Lab Sample ID: 890-7782-1 Date Collected: 03/07/25 08:25

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	104846	03/10/25 09:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	104839	03/10/25 19:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105036	03/10/25 19:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			105228	03/13/25 01:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	104820	03/09/25 21:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105110	03/13/25 01:19	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	104808	03/09/25 09:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	104836	03/10/25 12:05	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: Burtin Flats Line
Job ID: 890-7782-1
SDG: 03C2359007

Laboratory: Eurofins Midland

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

Authority	Progra	ım	Identification Number	Expiration Date
Texas	NELAF)	T104704400	06-30-25
for which the agency de	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This lis	st may include analyte
Analysis Method	Pren Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	
	Prep Method 8015NM Prep			

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Method Summary

Job ID: 890-7782-1 Client: Ensolum Project/Site: Burtin Flats Line SDG: 03C2359007

Method **Method Description** Protocol Laboratory

mourou	motified Booomption	1100001	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: Burtin Flats Line

Job ID: 890-7782-1

SDG: 03C2359007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7782-1	FS 15A	Solid	03/07/25 08:25	03/07/25 09:16	3

	Xenco	EL Paso, TX (Hobbs, NM (EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	Pageof
Project Manager:	TREMY REICH	Bill to: (if different)			Work Order Comment	ıments
Company Name:		Company Name:		-A	T/PST ☐ PRP□	Brownfields ☐ RRC ☐ Superfund ☐
Address: 3	3123 National Parks Huy	Address:		St		
City, State ZIP:	230				eveili Leveilii L	ST
Phone:	433-396-0627 Email:	: JEICHEENSOLUMEM	711	MSa (Mis & ensolum. com De	Deliverables: EDD ADAPI	Other:
Project Name:	Flats Line	Turn Around		ANALYSIS REQUEST		Preservative Codes
Project Number:	0215 0 362354007 PRoutine	Rush Code	(00)			None: NO DI Water: H ₂ O
Project Location: 30	5a CK75	Oue Date: 3/13/35 TAT starts the day received by the lab if received by				
PO #: SAMPI F RECEIPT	Temps lank: Yes No Wet Ice:	Т				H ₃ PO ₄ : HP
Samples Received Intact:	Thermometer	14moc)	5			NaHSO 4: NABIS
Cooler Custody Seals:	K	2	<i>θ</i> Ρ.	890-7782 Chain of Custouy		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No Corrected Temperature	in in	H.			Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Grab/	145 148			Sample Comments
	Sampled		7			
E515A	\$ 11/25 OBAS	2	> >			
Total 200.7 / 6010 Circle Method(s) and	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP	Texas 11 Al 6010 : 8RCRA	b As Ba Be B Cd Sb As Ba Be Cd C	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1	TI Sn U V Zn /7470 /7471
Notice: Signature of this documer of service. Eurofins Xenco will be of Eurofins Xenco. A minimum ch	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It sasigns 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.	rder from client company to Eur xonsibility for any losses or exper 5 for each sample submitted to I	ofins Xenco, its affiliates and nses incurred by the client if Eurofins Xenco, but not anal	Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions expenses incurred by the client if such losses are due to circumstances beyond the control d to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego	conditions le control xusly negotiated.	
Relinquished by: (Signature)	gnature) / Received by: (Signature)	re)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
M	Sums	3/.	3/7/25 0916	2		
2)			1		

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-7782-1

 SDG Number: 03C2359007

Login Number: 7782 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7782-1 SDG Number: 03C2359007

List Source: Eurofins Midland

Login Number: 7782 List Number: 2 List Creation: 03/09/25 08:31 PM

Creator: Laing, Edmundo

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

<6mm (1/4").

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

QUESTIONS

Action 482569

QUESTIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2502458832	
Incident Name	NAPP2502458832 BURTIN FLATS LINE @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	

Location of Release Source			
Please answer all the questions in this group.			
Site Name	Burtin Flats Line		
Date Release Discovered	01/10/2025		
Surface Owner	Federal		

ident Details				
Please answer all the questions in this group.				
Incident Type	Produced Water Release			
Did this release result in a fire or is the result of a fire	No			
Did this release result in any injuries	No			
Has this release reached or does it have a reasonable probability of reaching a watercourse	No			
Has this release endangered or does it have a reasonable probability of endangering public health	No			
Has this release substantially damaged or will it substantially damage property or the environment	No			
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No			

Nature and Volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.			
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Human Error Pipeline (Any) Produced Water Released: 65 BBL Recovered: 55 BBL Lost: 10 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	Yes			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	This release was reported to Aris/Solaris from OCD. Pilot Water Solutions reported the release, including volumes and cause. It is not clear who owns this line. Will need additional days to investigate pipeline ownership. It is not clear Aris/Solaris owns this line.			

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QUESTIONS, Page 2

Action 482569

QUESTI	IONS (continued)
Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Lauren Bean
I hereby agree and sign off to the above statement	Title: Senior Engineering Tech
	Fmail: lauren hean@ariswater.com

Date: 07/08/2025

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Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 482569

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	464	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	50.4	
GRO+DRO (EPA SW-846 Method 8015M)	50.4	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	12/12/2025	
On what date will (or did) the final sampling or liner inspection occur	02/28/2025	
On what date will (or was) the remediation complete(d)	02/28/2025	
What is the estimated surface area (in square feet) that will be reclaimed	3911	
What is the estimated volume (in cubic yards) that will be reclaimed	297	
What is the estimated surface area (in square feet) that will be remediated	3911	
What is the estimated volume (in cubic yards) that will be remediated	297	
These estimated dates and measurements are recognized to be the best guess or calculation at the	ne time of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 482569

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	30-015-22594 EMPIRE ABO UNIT #322A
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: Lauren Bean
Title: Senior Engineering Tech
Email: lauren.bean@ariswater.com
Date: 07/08/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 8/26/2025 3:13:09 PM

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

QUESTIONS, Page 5

Action 482569

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 482569

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	483652
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/07/2025
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	3911

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3911
What was the total volume (cubic yards) remediated	297
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3911
What was the total volume (in cubic yards) reclaimed	297
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the January 10, 2025, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride con-centrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria.

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 (in .pdf format) 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.

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

I hereby agree and sign off to the above statement	Name: Lauren Bean Title: Senior Engineering Tech Email: lauren.bean@ariswater.com Date: 07/10/2025
--	--

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General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 482569

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 482569

CONDITIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	482569
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	8/26/2025
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/26/2025