

March 24, 2023

New Mexico Oil Conservation Division

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

Re: Remediation Work Plan

Wilder CTB

Incident Number NAPP2300343271

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared the following *Remediation Work Plan (RWP)* to document assessment and soil sampling activities completed to date and propose additional remediation activities at the Wilder CTB (Site), resulting from a release of produced water and crude oil into the surrounding pasture. The following *RWP* proposes excavation of impacted and waste-containing soil in the top 4 feet of non-oil and gas production areas.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 29, Township 26 South, Range 32 East, in Lea County, New Mexico (32.0199°, -103.6900°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 26, 2022, a valve was left open, resulting in the release of approximately 372 barrels (bbls) of produced water and 1 bbl of crude oil onto the well pad and into the surrounding pasture. Released fluids were not recovered. COP reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on December 27, 2022 and submitted a Release Notification Form C-141 (Form C-141) on January 3, 2023. The release was assigned Incident Number NAPP2300343271.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the closest permitted groundwater well data. The closest groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320134103384101, located approximately 0.49 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 221.94 feet bgs and a total depth of 405 feet bgs, from January of 2013. In addition, there are two additional wells that indicate regional depth to groundwater is greater than 100 bgs. The

ConocoPhillips Company Remediation Work Plan Wilder CTB

second closest permitted groundwater well with depth to groundwater data is the New Mexico Office of the State Engineer (NMOSE) well C-02271-POD2, located ½ mile northeast of the Site and has a reported depth to groundwater of 250 feet bgs. NMOSE well C-03595 well, located approximately 0.51 miles northeast of the Site, has a reported depth to groundwater of 180 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 7,200 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On December 28, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Twelve soil samples (SS01 through SS12) were collected within and around the release extent at a depth of approximately 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS07 and SS09 through SS12 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for preliminary soil samples SS01 through SS06 and SS08 indicated all COC concentrations were compliant with the Closure Criteria; however, chloride and/or TPH concentrations exceeded the reclamation requirement. Based on visible staining in the release area,



ConocoPhillips Company Remediation Work Plan Wilder CTB

elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation of waste-containing soil appeared warranted.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On February 13, 2023, delineation activities were conducted at the Site to assess the vertical extent of waste-containing soil. Potholes PH01 through PH08 were advanced via backhoe within the release extent. The delineation potholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from each pothole at 1-foot and 4 feet bgs. Soil from the potholes was field screened using the same procedures stated above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for delineation soil sample PH07, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH06 and PH08 indicated waste-containing soil is present within the top 4 feet of soil off pad. It should be noted that soil from pothole PH04 at 1-foot bgs exceeded the combined TPH-GRO and TPH-DRO Closure Criteria; however, the subsequent soil sample collected at 4 feet bgs was compliant with the Closure Criteria. The location of PH04 is directly adjacent to the point of release and it appears impacted soil is limited to the immediate vicinity of the point of release location. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

PROPOSED REMEDIAL ACTIONS

- Waste-containing and limited impacted soil has been detected in the top 4 feet of soil off pad as indicated by preliminary surface soil samples SS01 through SS06 and SS08 and in the vicinity of potholes PH01 through PH06 and PH08 to a total depth of 4 feet bgs. As a result, COP proposes excavation of waste-containing and limited impacted soil in the top 4 feet. Excavation of TPH and chloride impacted soil in the top 4 feet of soil in areas of non-oil and gas production facilities. Excavation will proceed laterally until sidewall samples indicate chloride and TPH concentrations are compliant with the reclamation requirements.
- Due to the estimated 6,500 square foot size of the excavation, COP requests a variance for frequency of excavation confirmation samples. COP proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 33 samples) to every 400 square feet (approximately 17 samples). Each 5-point composite floor sample will represent a 400 square foot area. Sidewalls will be collected at a frequency of every 400 square feet.
- The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation floor samples will be analyzed for chloride only since delineation samples did not contain BTEX or TPH exceeding Site Closure Criteria. The excavation sidewall samples will be analyzed for TPH and chloride only.
- An estimated 1,250 cubic yards of impacted soil is anticipated to be excavated. The excavated soil will be transferred to a New Mexico approved disposal facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved BLM seed mixture.



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COP will complete the excavation activities within 90 days of the date of approval of this *RWP* by the NMOCD. COP believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and are protective of human health, the environment, and groundwater. As such, COP respectfully requests approval of this *RWP* from NMOCD.

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

Sincerely, **Ensolum, LLC**

Hadlie Green Project Manager Daniel R Moir, PG Senior Managing Geologist

cc: Charles Beauvais, ConocoPhillips Company

Jacob Laird, ConocoPhillips Company

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

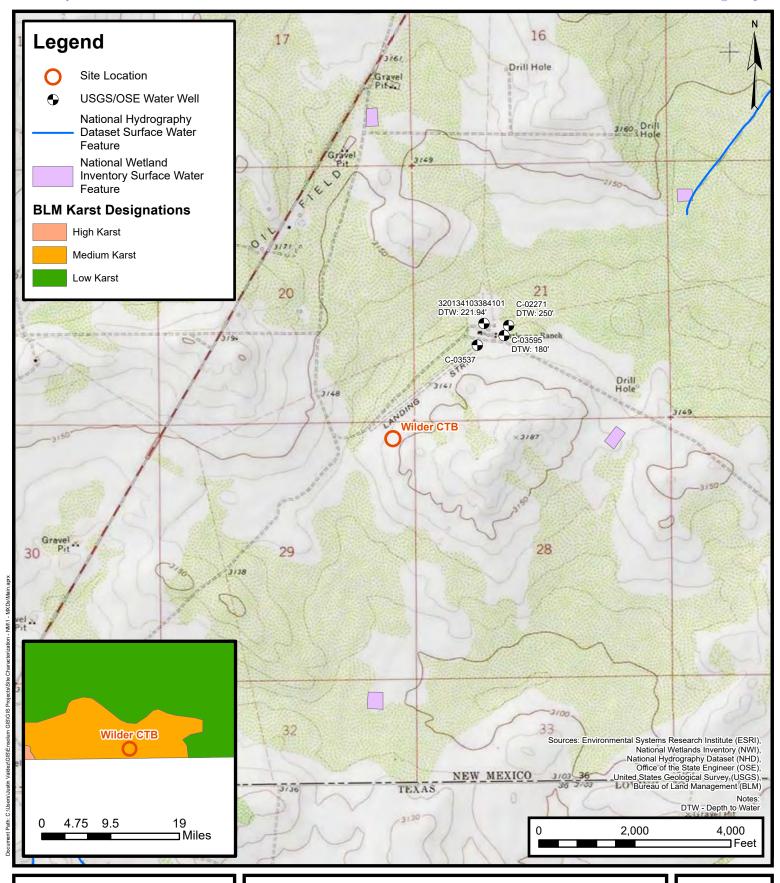
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E Final C-141

Appendix F NMOCD Notifications



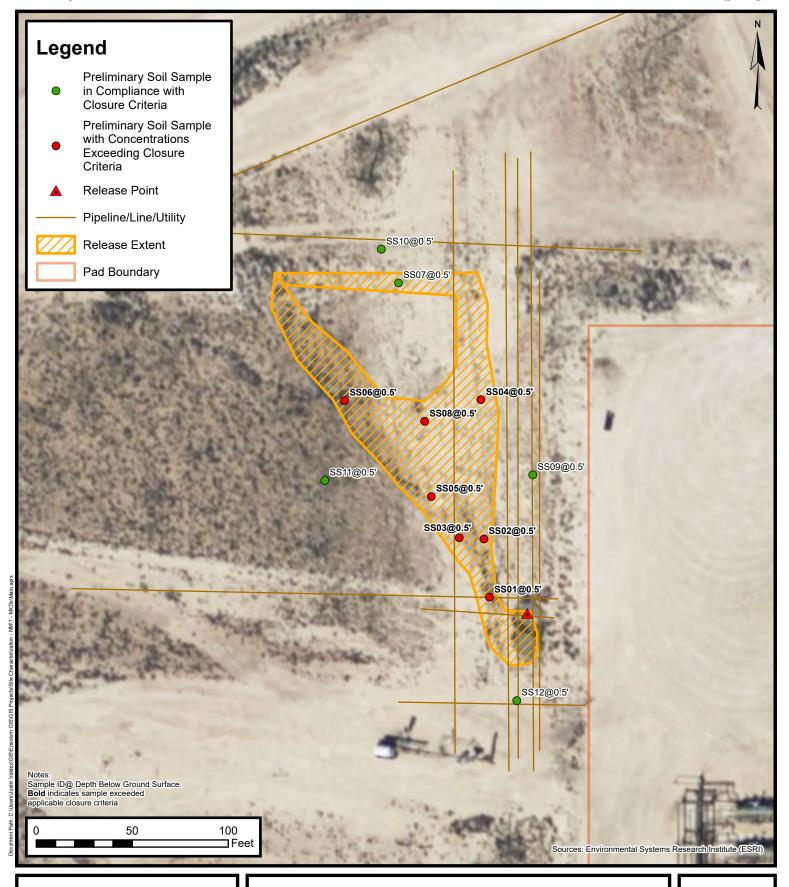
FIGURES





Site Receptor Map

Wilder CTB ConocoPhillips Company Incident Number: NAPP2300343271 Unit A, Sec 29, T26S, 32E Lea County, New Mexico FIGURE

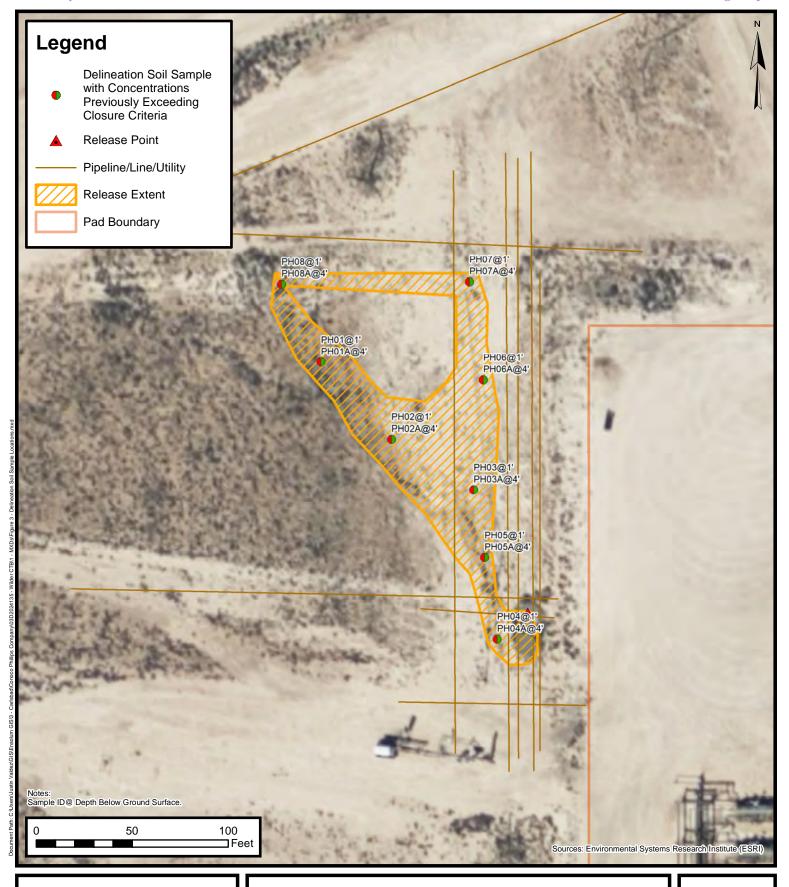




Preliminary Soil Sample Locations Map

Wilder CTB ConocoPhillips Company Incident Number: NAPP2300343271

Unit A, Sec 29, T26S, 32E Lea County, New Mexico FIGURE





Delineation Soil Sample Locations Map

Wilder CTB ConocoPhillips Company Incident Number: NAPP2300343271

Unit A, Sec 29, T26S, 32E Lea County, New Mexico FIGURE



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Wilder CTB ConocoPhillips Company Lea County, New Mexico

	Lea County, New Mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000			
	Preliminary Assessment Soil Samples												
SS01	12/28/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	3,510*			
SS02	12/28/2022	0.5	<0.00202	0.0261	<49.9	185	78.2	185	263	5,200*			
SS03	12/28/2022	0.5	<0.00200	<0.00399	61.1	<49.9	67.5	61.1	129	8,560*			
SS04	12/28/2022	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	6,740*			
SS05	12/28/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	6,340*			
SS06	12/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	5,330*			
SS07	12/28/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	46.8*			
SS08	12/28/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,470*			
SS09	12/28/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	41.3*			
SS10	12/28/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	7.60*			
SS11	12/28/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.7*			
SS12	12/28/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98*			
				Deli	neation Soil Sam	ples							
PH01	02/13/2023	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	2,770*			
PH01A	02/13/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,590			
PH02	02/13/2023	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	2,940*			
PH02A	02/13/2023	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	4,270			
PH03	02/13/2023	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	3,770*			
PH03A	02/13/2023	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	4,760			

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PH04	02/13/2023	1	<0.00199	0.317	237	1,790	169	2,027	2,200	4,320*
PH04A	02/13/2023	4	<0.00200	<0.00401	<49.9	225	<49.9	225	225	3,830
PH05	02/13/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,860*
PH05A	02/13/2023	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	4,280
PH06	02/13/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	4,360*
PH06A	02/13/2023	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	863
PH07	02/13/2023	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	304*
PH07A	02/13/2023	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	630
PH08	02/13/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,440*
PH08A	02/13/2023	4	<0.00199	<0.00398	<49.9	169	<49.9	169	169	4,930

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable

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



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320134103384101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320134103384101 26S.32E.21.32311

Lea County, New Mexico

Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83

Land-surface elevation 3,130 feet above NAVD88

The depth of the well is 405 feet below land surface. The depth of the hole is 405 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	
1993-06-16	5	0	62610		2723,41	NGVD29	1	L			Α	
1993-06-16	5		62611		2725.00	NAVD88	1	L			А	
1993-06-16	5		72019	405.00			1	L			А	
2013-01-16	5 19:10 UTC	m	62610		2906.47	NGVD29	Р	S	USGS	S	, A	
2013-01-16	9:10 UTC	m	62611		2908.06	NAVD88	Р	S	USGS	S	A	
2013-01-16	19:10 UTC	m	72019	221.94			Р	9	USGS	S	. A	

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	L	Interpreted from geophysical logs.
Method of measurement	S	Steel-tape measurement.
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 about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy 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: 2023-02-09 16:37:03 EST

0.31 0.27 nadww02





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

C 02271 POD2 3 2 3 21 26S 32E

3544010*

Driller License: 208 **Driller Company:** VAN NOY, W.L.

Driller Name: W.L. VAN NOY

Drill Start Date: 08/28/1992 **Drill Finish Date:** 09/09/1992 **Plug Date:**

Log File Date: 10/28/1992 **PCW Rcv Date:** Source: Shallow **Pump Type: SUBMER** Pipe Discharge Size: **Estimated Yield:** 15 GPM **Casing Size:** 6.38 Depth Well: 270 feet **Depth Water:** 250 feet

Water Bearing Stratifications: Top Bottom Description

225 265 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

205 265

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

2/9/23 2:17 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

1654

Q64 Q16 Q4 Sec Tws Rng

X Y

C 03595 POD1

4 2 3 21 26S 32E

624423 3544045

Driller License:

Driller Company:

NOT WORKING FOR HIRE--SIRMAN DRILLING

AND CONSTRUC

Driller Name:

09/30/2013

Drill Finish Date:

09/30/2013

Plug Date:

Drill Start Date: Log File Date:

10/29/2013

PCW Rcv Date:

Source:

Shallow

Pump Type:

10/27/2013

Pipe Discharge Size:

Estimated Yield:

Casing Size:

6.00 **Depth Well:**

280 feet

Depth Water:

180 feet

Water Bearing Stratifications:

Top Bottom Description

160

200

200 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

240

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log



Photographic Log

ConocoPhillips Company
Wilder CTB
Incident Number NAPP2300343271



Photograph: 1 Date: 12/26/2022

Description: Soil staining in release footprint

View: Northwest



Photograph: 2 Date: 12/28/2022

Description: Soil staining in release footprint

View: North



Photograph: 3 Date: 12/28/2022

Description: Soil staining in release footprint

View: Northeast



Photograph: 4 Date: 2/13/2023

Description: Delineation activities

View: South



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 02/13/23			
7	7						B .4	Site Name: Wilder CTB	Date: 02/13/23			
			N	5	OI	U	M	Incident Number: NAPP230034327				
								Job Number: 03D2024135				
		יחשדוו	UCI	C / SOIL 6	SAMPLING	106			Method: Backhoe			
Coord		2.022778		_	SAIVIPLING	LOG		Logged By: J.Falcomata Method: Backhoe Hole Diameter: Total Depth: 6'				
					vith HACH Ch	alorido Tost	String and	PID for chloride and vapor, respecti	•			
			_					factors included.	very. Chioride test			
Moisture Content	Content Chloride (ppm) Staining Stainin						Lithologic Desc	criptions				
D	4,099	1.8	N	А	1 -	- 1	SM	SILTY SAND: fine grained, slig brown to brown, no odor, no				
D	4,468	1.3	N	В	2 -	- - 2 -	SM	SILTY SAND: fine grained, slig brown to brown, no odor, no	, ,			
D	6,210	1.4	Ν	С	3 -	- - 3 -	SM	SILTY SAND: fine grained, moderately silty, medium brown to brown, no odor, non plastic.				
D	6,225	1.5	N	D	4 -	- - 4	SM	SILTY SAND: fine grained, mo medium brown to brown, no	, , ,			
D	5,725	2.1	N	E	5 -	- 5 -	SM	SILTY SAND WITH GRAVEL: fi grained, slightly silty in parts tan, slight odor, non plastic.				
D	6,472	2.2	N	F	6 -	- - 6	SM-SP	POORLY GRADED SAND WITH medium to coarse to fine gratan, slight odor, non plastic.				

								Sample Name: PH02	Date: 02/13/23	
								Site Name: Wilder CTB	Date. 02/13/23	
			N	S	OI	LU	M	Incident Number: NAPP23003432	7	
4									/	
			00:	C / CO!! :	CARADITA	2100		Job Number: 03D2024135		
					SAMPLING	LOG		Logged By: J.Falcomata Method: Backhoe		
		2.022778						Hole Diameter:	Total Depth: 6'	
								PID for chloride and vapor, respect factors included.	tively. Chloride test	
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Staining USCS/Rock Symbol				-	Lithologic Des	scriptions			
D	2,385	1.5	N	А	1 -	- - 1	SM	SILTY SAND: very fine to fine medium brown to brown, sl		
D	3,908	2.1	N	В	2 -	- - 2 -	SM	SILTY SAND: very fine to fine medium brown to brown, sl		
D	4,653	1.8	N	С	3 -	- - 3 -	SM	SILTY SAND: fine to very fine silty, medium brown to sligh non plastic.	•	
D	6,988	1.5	N	D	4 -	- - 4	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, moderately silty, medium brown to brown, no odor, low plasticity.		
D	6,462	2.2	N	E	5 -	- - 5 -	SP-SM	POORLY GRADED SAND WIT medium to coarse to fine gr tan, slight odor, non plastic.	H SILT AND GRAVEL: rained, light brown to	
D	5,499	1.9	N	F	6 -	- - 6 -	SP-SM	POORLY GRADED SAND WIT medium to coarse to fine gr tan, slight odor, non plastic.	ained, light brown to	

								Carrala Nama, DUO2	Data: 02/12/22		
								Sample Name: PH03	Date: 02/13/23		
		E	N	S	0 1	LU	M	Site Name: Wilder CTB	,		
1								Incident Number: NAPP230034327			
		=	200	0.100:::				Job Number: 03D2024135			
				•	SAMPLING	LOG		Logged By: J.Falcomata Method: Backhoe			
		2.022778						Hole Diameter:	Total Depth: 6'		
			_				PID for chloride and vapor, respect factors included.	ively. Chloride test			
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock Symbol						Lithologic Descriptions				
								SILTY SAND WITH GRAVEL: f	ine to medium		
D	5,964	1.5	N	Α	1 -	- 1	SM	grained, slightly silty, mediu			
	3,304	1.5	1	^			Sivi		in brown to brown,		
								slight odor, no plasticity. SILTY SAND WITH GRAVEL: f	ine to medium to		
D	8,820	1.6	N	В	2 -	- 2	SM	coarse grained, slightly silty,			
	0,020				-	_		brown, slight odor, non plas			
								POORLY GRADED SAND W/ S			
D	8,820	1.9	N	С	3 -	_ 3	SP-SM	medium to coarse to fine gra			
	,,,,				-	-			· · · · · · · · · · · · · · · · · · ·		
								medium brown to tan, slight odor, non plastic. SILTY SAND WITH GRAVEL: fine to medium to			
D	7,560	3.3	N	D	4 -	- 4	SM	coarse grained, silty in parts, light brown to tan,			
					-	_		slight odor, no plasticity.			
					_	_		SILTY SAND WITH GRAVEL: f	ine to medium		
D	5,964	2.5	N	Е	5 -	- 5	SM	grained, moderately silty, lig	ht brown to tan, slight		
					-	-		odor, non plastic.			
					_			SILTY SAND WITH GRAVEL: f	ine to medium		
D	6,462	3.1	N	F	6 -	- 6	SM	grained, very silty, light brov	vn to tan, slight odor,		
					-			non plastic.			
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								Sample Name: PH04	Date: 02/13/23	
								Site Name: Wilder CTB	Date: 02/15/25	
		E	N	S	OI	_ U	M	Incident Number: NAPP230034327	,	
1										
		LITUO	00'	C / CO!! :	CARADITA	2100		Job Number: 03D2024135	14 d d d 1974 2	
					SAMPLING	LOG		Logged By: J.Falcomata	Method: HVAC	
		2.022778			-th- HACH C	de state Trees	Chui a a a a a	Hole Diameter:	Total Depth: 6'	
			_					PID for chloride and vapor, respect factors included.	ively. Chioride test	
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Samble ID Debth (tt pds) USCS/Rock Symbol						Lithologic Descriptions			
								SILTY SAND: very fine to fine	grained silty	
D	5,499	238	Υ	Α	1 -	- 1	SM	medium brown to brown, st	= -	
	J, 4 JJ	230				- 1	الااد	plastic.	i ong odor, non	
								SILTY SAND: very fine to fine	grained, silty.	
D	6,462	67	Υ	В	2 -	- 2	SM	medium brown to brown, st	•	
	,				-	-		plastic.		
						_				
D	5,964	38	N	С	3 -	- 3	SP-SM	SILTY SAND: very fine to fine		
	Ý				-	-		medium brown to tan, stron	ng odor, non plastic.	
					_	-		SILTY SAND WITH GRAVEL: f	ine to medium	
D	5,964	71	N	D	4 -	- 4	SP-SM	grained, very silty, brown to tan, strong odor, no		
					<u> </u>	-		plastic.		
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								Sample Name: PH05	Date: 02/13/23		
7	7						B .4	Site Name: Wilder CTB	Date: 02/13/23		
			N	5	OI	_ U	M	Incident Number: NAPP230034327	7		
								Job Number: 03D2024135			
		LITHOL	OGI	C / SOIL	SAMPLING	ilog		Logged By: J.Falcomata	Method: HVAC		
Coord		2.022778			JAIVII LIIV	100		Hole Diameter: Total Depth: 6'			
					vith HACH Ch	oloride Test	Strins and	PID for chloride and vapor, respect			
			_					factors included.	erroriuc test		
Moisture Content	Content Content Chloride (ppm) Vapor (ppm) Sample ID Sample ID USCS/Rock Symbol						USCS/Rock Symbol	Lithologic Des	criptions		
								SILTY SAND: fine to medium	grained silty		
D	5,499	1.2	N	Α	1 -	- 1	SM	medium brown to light brov	-		
	5,755	1.4	11				3141	plastic.	vii, iio odoi, iioli		
								SILTY SAND WITH GRAVEL: f	ine to medium		
D	6,462	4.2	N	В	2 -	- 2	SM	grained, silty, medium brow			
					-	}		odor, non plastic.	,		
					_	-		SILTY SAND WITH GRAVEL:	medium to fine		
D	5,964	3.3	N	С	3 -	- 3	SM	grained, silty, medium brown to brown, no odor,			
					-	-		non plastic.			
					-	-		SILTY SAND WITH GRAVEL: medium to fine			
D	5,499	3.7	N	D	4 -	- 4	SM	grained, silty, medium brown to brown, no odor			
								non plastic.			
					-	-					
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								Sample Name: PH06	Date: 02/13/23		
							B .4	Site Name: Wilder CTB	Date: 02/13/23		
			N	S	OI	LU	M	Incident Number: NAPP230034327	,		
		LITUO	00'	C / CO!! :	CABADIINI	2100		Job Number: 03D2024135			
					SAMPLING	LUG		Logged By: J.Falcomata Method: Backhoe			
		2.022778			-th- HACH C	alandala Tarak	Charles and	Hole Diameter:	Total Depth: 6'		
			_					PID for chloride and vapor, respect factors included.	ively. Chloride test		
Moisture Content	Content Chloride (ppm) Vapor (ppm) Staining Samble ID Debth (tt pds) USCS/Rock Symbol							Lithologic Descriptions			
								SILTY SAND WITH GRAVEL: f	ine to medium		
D	5,062	1.4	N	Α	1 -	1	SM	grained, moderately silty, m			
	3,002	1.4	1	^			Jivi	brown, no odor, non plastic.	-		
								SILTY SAND WITH GRAVEL: f	ine to medium		
D	3,908	1	N	В	2 -	- 2	SM	grained, slightly silty, light b	rown to tan, no odor.		
	,				-	1		non plastic.	,,		
					_	_		SILTY SAND WITH GRAVEL: v	ery fine to fine to		
D	3,908	1.1	N	С	3 -	- 3	SM	medium grained, very silty,	tan to very light		
					-	-		brown, no odor, non plastic.			
					-			SILTY SAND WITH GRAVEL: v	ery fine to fine to		
D	700	1.2	N	D	4 -	- 4	SM	medium grained, very silty,	light brown to tan, no		
					-	-		odor, non plastic.			
					-	_		SILTY SAND: very fine to fine	grained, very silty.		
D	924	1	N	E	5 -	- 5	SM	tan to very light red, no odor, non plastic.			
								tan to very light red, no odor, non plastic.			
	F 74	0.0		-	-	-	CN 4	SILTY SAND: very fine to fine	grained, very silty,		
D	571	0.9	N	F	6 -	- 6	SM	tan to very light red, no odo	r, non plastic.		
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								Carrala Nama, DUO7	Data: 02/12/22	
8	7							Sample Name: PH07	Date: 02/13/23	
		E	N	S	0 1	_ U	M	Site Name: Wilder CTB Incident Number: NAPP230034327	,	
1										
				. /				Job Number: 03D2024135		
					SAMPLING	LUG		Logged By: J.Falcomata Method: Backhoe		
		2.022778			- the LLACLE C	de del Terre	Chuiu	Hole Diameter:	Total Depth: 6'	
			_					PID for chloride and vapor, respect factors included.	ively. Chloride test	
Moisture Content	Content Chloride (ppm) Vapor (ppm) Samble ID Sample ID USCS/Rock Symbol						Lithologic Descriptions			
								SILTY SAND WITH GRAVEL: f	ine to medium	
D	408	0.7	N	Α	1 -	- 1	SM	grained, silty in parts, mediu		
	,55	5.,	'	, ,	-	-	3.71	odor, non plastic.	5.5 65 6611, 110	
					_	-		SILTY SAND WITH GRAVEL: f	ine to medium	
D	4,653	0.9	N	В	2 -	- 2	SM	grained, silty, tan to light bro	own, no odor, non	
						-		plastic.		
					-	-		SILTY SAND WITH GRAVEL:	fine to medium	
D	2,940	0.7	N	С	3 -	- 3	SM	grained, silty, tan to light bro	own, no odor, non	
					-	=		plastic.		
					-	-		SILTY SAND WITH GRAVEL: f		
D	700	0.8	N	D	4 -	- 4	SM	coarse grained, silty, tan to	reddish tan, no odor,	
						-		non plastic.		
	4 000	0.0		-	-	-	63.4	SILTY SAND: very fine to fine	grained, very silty,	
D	1,002	0.9	N	E	5 -	- 5	SM	tan to light brown, no odor,	non plastic.	
								SILTY SAND: very fine to fine	grained very silty	
D	<168	0.8	N	F	6 -	- 6	SM	light brown to reddish brow		
	\100	0.0	IN	'		-	Sivi	plastic.	ii, iio odoi, iioii	
								piastic.		
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								Sample Name: PH08	Date: 02/13/23			
7	7						B .4	Site Name: Wilder CTB	Date: 02/13/23			
			N	5	OI	U	M	Incident Number: NAPP230034327	,			
4								Job Number: 03D2024135				
		LITHO	OGI	C / SOII 9	SAMPI ING	SIOG		Logged By: J.Falcomata Method: Backhoe				
LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.022778, -103.690000							Hole Diameter:	Total Depth: 6'				
					vith HACH Ch	olorida Tast	Strine and	PID for chloride and vapor, respect	·			
			-				•	factors included.	ively. emoriae test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions			
D	1,831	1.2	N	А	1 -	- - 1	SM	SILTY SAND: very fine to fine parts, brown to dark brown,	, ,			
D	2,956	1.1	N	В	2 -	- 2 -	SM	SILTY SAND: very fine to fine brown to dark brown, no od				
D	8,164	1.3	N	С	3 -	- - 3	SP-SM	POORLY GRADED SAND WIT fine to medium to coarse gra light brown, no odor, non pla	ained, silty, tan to			
D	5,062	1.5	Ν	D	4 -	- - 4	SP-SM	POORLY GRADED SAND WITH GRAVEL: fine to medium to coarse grained, very silty, light brow to reddish brown, no odor, non plastic.				
D	2,329	1.2	Ν	E	5 -	- 5 -	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, very silty, light brown to redishbrown to tan, no odor, non plastic.				
D	414	1	N	F	6 -	- - 6	SM	SILTY SAND: very fine to fine tan to reddish brown, no od	. , ,.			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400 Midland, Texas 79701

Generated 1/6/2023 4:22:35 PM

JOB DESCRIPTION

Wilder CTB Spill Can SDG NUMBER Lea County NM

JOB NUMBER

890-3743-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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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: Wilder CTB Spill Can
Laboratory Job ID: 890-3743-1
SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3743-1 Client: Ensolum Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

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

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

Method 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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1

SDG: Lea County NM

Job ID: 890-3743-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3743-1

Receipt

The sample was received on 12/30/2022 12:40 PM. 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 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS11 (890-3743-1).

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SS11 (890-3743-1). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION REQUIRED>.

Login 890-3743

Sample Jars COC

SS11 12-28-22 14:30 0.5 SS11 12-28-22 13:55 0.5

Based off this infomation we can tell they are the same sample due to sample name, date, depth

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS11 (890-3743-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43075 and analytical batch 880-43283 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Lab Sample ID: 890-3743-1

Client Sample Results

Client: Ensolum Job ID: 890-3743-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS11

Date Collected: 12/28/22 13:55 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 14:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 14:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 14:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/04/23 15:26	01/05/23 14:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 14:40	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/04/23 15:26	01/05/23 14:40	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			01/04/23 15:26	01/05/23 14:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/04/23 15:26	01/05/23 14:40	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/05/23 15:18	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/06/23 13:03	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	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 19:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 09:23	01/05/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			01/04/23 09:23	01/05/23 19:05	1
o-Terphenyl	120		70 - 130			01/04/23 09:23	01/05/23 19:05	1
•			ali dala					
Method: MCAWW 300.0 - Anions	, Ion Chromato	ograpny - So	olubie					
Method: MCAWW 300.0 - Anions Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Carlsbad

Released to Imaging: 4/28/2023 12:49:26 PM

Surrogate Summary

Client: Ensolum Job ID: 890-3743-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23188-A-1-E MS	Matrix Spike	101	109	
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108	
890-3743-1	SS11	109	104	
LCS 880-43178/1-A	Lab Control Sample	95	108	
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108	
MB 880-43178/5-A	Method Blank	99	101	
Surrogate Legend				
BFB = 4-Bromofluoroben:	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23216-A-1-D MS	Matrix Spike	88	81	
880-23216-A-1-E MSD	Matrix Spike Duplicate	87	81	
890-3743-1	SS11	135 S1+	120	
LCS 880-43130/2-A	Lab Control Sample	94	89	
LCSD 880-43130/3-A	Lab Control Sample Dup	108	89	
MB 880-43130/1-A	Method Blank	107	104	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-3743-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A

Matrix: Solid Analysis Batch: 43200 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43178

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	01/04/23 15:26	01/05/23 11:28	1
1,4-Difluorobenzene (Surr)	101	70 - 130	01/04/23 15:26	01/05/23 11:28	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 43178

Lab Sample ID: LCS 880-43178/1-A **Matrix: Solid** Analysis Batch: 43200

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09959 mg/Kg 100 70 - 130 Toluene 0.100 0.09381 mg/Kg 94 70 - 130 0.100 0.09104 Ethylbenzene mg/Kg 91 70 - 130 0.200 0.1883 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08972 70 - 130 o-Xylene mg/Kg 90

LCS LCS

Surrogate	%Recovery Quali	ifier Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 43200

Lab Sample ID: LCSD 880-43178/2-A

Prep Type: Total/NA Prep Batch: 43178

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-23188-A-1-E MS

Matrix: Solid

Analysis Batch: 43200

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

Prep Batch: 43178

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130	
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130	

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Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1 SDG: Lea County NM

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

Lab Sample ID: 880-23188-A-1-E MS

Lab Sample ID: 880-23188-A-1-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 43200

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43178

				MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00201	U F1	0.101	0.04970	F1	mg/Kg		49	70 - 130	
<0.00402	U F1	0.202	0.1017	F1	mg/Kg		50	70 - 130	
<0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130	
	<0.00201 <0.00402	Result Qualifier	<0.00201 U F1 0.101 <0.00402 U F1 0.202	<0.00201	<0.00201 U F1 0.101 0.04970 F1 <0.00402 U F1 0.202 0.1017 F1	<0.00201 U F1 0.101 0.04970 F1 mg/Kg <0.00402 U F1 0.202 0.1017 F1 mg/Kg	<0.00201 U F1 0.101 0.04970 F1 mg/Kg <0.00402 U F1 0.202 0.1017 F1 mg/Kg	<0.00201	<0.00201 U F1

MS MS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43178

Analysis Batch: 43200 Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0990 Benzene <0.00201 U 0.07783 mg/Kg 79 70 - 130 4 35 Toluene 0.0990 <0.00201 UF1 0.06118 F1 mg/Kg 61 70 - 130 5 35 Ethylbenzene <0.00201 UF1 0.0990 0.05304 F1 mg/Kg 54 70 - 130 35 0.198 0.1076 F1 70 - 130 35 m-Xylene & p-Xylene <0.00402 UF1 mg/Kg 6 0.0990 <0.00201 UF1 0.05062 F1 51 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-43130/1-A

Matrix: Solid

Analysis Batch: 43191

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43130

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:23	01/05/23 08:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	01/04/23	3 09:23	01/05/23 08:23	1
o-Terphenyl	104		70 - 130	01/04/23	3 09:23	01/05/23 08:23	1

Lab Sample ID: LCS 880-43130/2-A

Matrix: Solid

Analysis Batch: 43191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43130

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	923.7		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	854.4		mg/Kg		85	70 - 130	
C10-C28)								

Job ID: 890-3743-1

Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

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

Lab Sample ID: LCS 880-43130/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 43191 Prep Batch: 43130

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 89 70 - 130

Lab Sample ID: LCSD 880-43130/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 43191 Prep Batch: 43130

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 825.3 83 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 783.0 78 mg/Kg 70 - 1309 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 108 89 70 - 130 o-Terphenyl

Lab Sample ID: 880-23216-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 43191** Prep Batch: 43130

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 930.6 mg/Kg 93 70 - 130

(GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 924.9 mg/Kg 93 70 - 130 C10-C28)

70 - 130

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 88

81

Lab Sample ID: 880-23216-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 43191 Prep Batch: 43130

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 999 933.2 93 Gasoline Range Organics <49.9 mg/Kg 70 - 130 20 (GRO)-C6-C10

Diesel Range Organics (Over <49.9 U 999 914.9 mg/Kg 92 70 - 130 C10-C28) MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 81 70 - 130 o-Terphenyl

Eurofins Carlsbad

20

o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Client: Ensolum Job ID: 890-3743-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43075/1-A

Matrix: Solid

Analysis Batch: 43283

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Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/06/23 12:48

Lab Sample ID: LCS 880-43075/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43283

Spike LCS LCS

%Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.8 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-43075/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43283

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.3 108 mg/Kg 90 - 110

Lab Sample ID: 880-23210-A-41-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 43283

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 146 F1 249 421.8 F1 90 - 110 mg/Kg

Lab Sample ID: 880-23210-A-41-C MSD

Matrix: Solid

Analysis Batch: 43283

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 146 F1 249 422.5 F1 mg/Kg 111 90 - 110 20

QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1 SDG: Lea County NM

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8021B	43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178

Analysis Batch: 43294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8015NM Prep	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8015B NM	43130
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015B NM	43130
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43130
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43130
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43130
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43130

Analysis Batch: 43388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43075

Released to Imaging: 4/28/2023 12:49:26 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Soluble	Solid	DI Leach	
MB 880-43075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1 SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Soluble	Solid	300.0	43075
MB 880-43075/1-A	Method Blank	Soluble	Solid	300.0	43075
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	300.0	43075
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43075
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	43075
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43075

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Lab Chronicle

Client: Ensolum

Job ID: 890-3743-1

Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Client Sample ID: SS11 Lab Sample ID: 890-3743-1

Date Collected: 12/28/22 13:55

Date Received: 12/30/22 12:40

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			5.01 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43294	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43388	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 19:05	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43075	01/03/23 12:04	KS	EET MID
Soluble	Analysis	300.0		1			43283	01/06/23 13:28	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1

SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Ensolum

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Wilder CTB Spill Can

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-3743-1

SDG: Lea County NM

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
MCAWW	EET MID
SW846	EET MID

EET MID

EET MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3743-1	SS11	Solid	12/28/22 13:55	12/30/22 12:40	0.5

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601 N Marienfeld St Suite 400

Midland, TX 79701

Reporting: Level III 🗍 Level III 🗍 PST/UST 🗍 TRRP 📗 Level IV 📗

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

Work Order Comments

www.xenco.com

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State of Project:

601 N Marienfeld St Suite 400

Company Name: Bill to: (if different)

Ensolum, LLC Kalei Jennings

Ensolum, LLC Hadlie Green

Chain of Custody

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

3	DIVINGALEL	Relinguished by: (Signature)	Votice: Signature of this doc of service. Eurofins Xenco w of Eurofins Xenco. A minimu	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010				1			SS11	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone: 43	City, State ZIP: Mi
		Signature)	ument and relinquishme vill be liable only for the im charge of \$85.00 will	Metal(s) to be ana	200.8 / 6020:			#4	17.			S	cation Matrix		Yes No NIA	Yes No (N/A)	t (Yes) No	Temp Blank:		Dmitry Nikanorov	Lea County, NM	03D2024135	Wilder CTB Spill Can	432-557-8895	Midland, TX 79701
	17007	Received	nt of samples consti cost of samples and be applied to each p	alyzed	8R					17.01		12/28/2022	Date Sampled	Corrected Temperature	A Temperature Reading:	A Correction Factor:	Thermometer ID:	(Kes)No		anorov	y, NM	135	Spill Can		
		Received by: (Signature)	tutes a valid purcha shall not assume a roject and a charge	TCLP / SPLI	8RCRA 13PPM							1355 0.5'	Time D		H		7	Wet Ice:	the lab, if received by 4:30pm	TAT starts the day received by	Due Date:	Routine [Turn Around	Email: kie	Ci
		a)	ise order from clie ny responsibility fo of \$5 for each san	TCLP / SPLP 6010: 8RCRA	Texas 11							5' Grab	Depth Comp C	F. O	4.0	0,0	TOOM	Yes No	ed by 4:30pm	ay received by		Rush		ennings@ens	City, State ZIP:
	5	Da	nt compan or any loss nple subm		N Sb A	-					\perp	×	CHLO	RIDE	S (E			nete	rs			Code		olum.co	Mid
	かららい	Date/Time	y to Eurofir es or exper itted to Eur	As Ba	Al Sb As Ba Be B							×	TPH (8											m; hgree	Midland, I.A. /9/01
1 1	22	Relinquished by: (Signa	Volice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. 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 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	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	B Cd Ca Cr Co Cu Fe Pb							×	ВТЕХ	8021									ANALYSIS RE	Email: kjennings@ensolum.com; hgreen@ensolum.com	79/07
			Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Ni Se Ag TI U	Mg Mn Mo Ni K Se /									S Chair of Cookers	Chain of Custody				-				REQUEST	Deliverables: EDD	
			ns trol otiated.	Hg: 1631 / 245.1 / 7470 / 7471	Ag SiO ₂ Na Sr Ti Sn U					702020	Incident		Sample C	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ S0 ₄ H ₂	HCL: HC	Cool: Cool	None: NO	Preservat	ADaP1 LJ Other	
		Date∕Time		7471	∨ Zn					1185 DIA	ncident Number		Sample Comments	Acid: SAPC)H. Zn	~			NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes		

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3743-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3743 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3743-1

SDG Number: Lea County NM

Login Number: 3743 List Source: Eurofins Midland List Number: 2

List Creation: 01/03/23 09:51 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 1/6/2023 4:22:35 PM

JOB DESCRIPTION

Wilder CTB Spill Can SDG NUMBER Lea County NM

JOB NUMBER

890-3744-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 1/6/2023 4:22:35 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 1/6/2023

Client: Ensolum
Project/Site: Wilder CTB Spill Can
SDG

Laboratory Job ID: 890-3744-1 SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum Job ID: 890-3744-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Qualifiers

GC VOA

Qualifier Qualifier Description

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

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

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

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1

SDG: Lea County NM

Job ID: 890-3744-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3744-1

Receipt

The sample was received on 12/30/2022 12:40 PM. 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 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS12 (890-3744-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 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.

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-3757-A-1-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43075 and analytical batch 880-43283 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-3744-1

Client Sample Results

Client: Ensolum Job ID: 890-3744-1

Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Date Collected: 12/28/22 14:00 Date Received: 12/30/22 12:40

Client Sample ID: SS12

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 15:00	
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 15:00	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 15:00	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 15:00	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 15:00	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 15:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			01/04/23 15:26	01/05/23 15:00	
1,4-Difluorobenzene (Surr)	108		70 - 130			01/04/23 15:26	01/05/23 15:00	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/05/23 15:18	
Analyte		Qualifier	RL 10.0	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH			49.9	mg/Kg		Frepareu	01/06/23 13:03	Dil Fac
-								
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	<49.9	U	49.9	mg/Kg		01/05/23 11:23	01/06/23 03:16	•
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/05/23 11:23	01/06/23 03:16	,
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/05/23 11:23	01/06/23 03:16	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	121		70 - 130			01/05/23 11:23	01/06/23 03:16	
o-Terphenyl	114		70 - 130			01/05/23 11:23	01/06/23 03:16	
о-тегрпепут								
	s, Ion Chromato	ography - So	oluble					
Method: MCAWW 300.0 - Anions Analyte		Qualifier	oluble RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-3744-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23188-A-1-E MS	Matrix Spike	101	109	
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108	
890-3744-1	SS12	106	108	
LCS 880-43178/1-A	Lab Control Sample	95	108	
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108	
MB 880-43178/5-A	Method Blank	99	101	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3744-1	SS12	121	114	
890-3757-A-1-C MS	Matrix Spike	112	85	
890-3757-A-1-D MSD	Matrix Spike Duplicate	114	88	
LCS 880-43251/2-A	Lab Control Sample	104	98	
LCSD 880-43251/3-A	Lab Control Sample Dup	118	110	
MB 880-43251/1-A	Method Blank	113	109	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-3744-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A

Matrix: Solid

Analysis Batch: 43200 MD MD Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43178

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 15:26	01/05/23 11:28	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	01/04/23 1	15:26 01/05/23 11:28	1
1,4-Difluorobenzene (Surr)	101	70 - 130	01/04/23 1	15:26 01/05/23 11:28	1

Lab Sample ID: LCS 880-43178/1-A

Matrix: Solid

Analysis Batch: 43200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43178

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09959		mg/Kg		100	70 - 130	
Toluene	0.100	0.09381		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09104		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.08972		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-43178/2-A

Matrix: Solid

Analysis Batch: 43200

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43178

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-23188-A-1-E MS

Matrix: Solid

Analysis Batch: 43200

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

Prep Batch: 43178

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130	
Toluene	< 0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130	

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1

SDG: Lea County NM

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

Lab Sample ID: 880-23188-A-1-E MS

Matrix: Solid

Analysis Batch: 43200

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 43178

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U F1 0.101 0.04970 F1 49 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 UF1 0.202 0.1017 F1 mg/Kg 50 70 - 130 0.101 48 o-Xylene <0.00201 UF1 0.04826 F1 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43178

Lab Sample ID: 880-23188-A-1-F MSD **Matrix: Solid**

Analysis Batch: 43200

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00201	U	0.0990	0.07783		mg/Kg		79	70 - 130	4	35
<0.00201	U F1	0.0990	0.06118	F1	mg/Kg		61	70 - 130	5	35
<0.00201	U F1	0.0990	0.05304	F1	mg/Kg		54	70 - 130	7	35
<0.00402	U F1	0.198	0.1076	F1	mg/Kg		54	70 - 130	6	35
<0.00201	U F1	0.0990	0.05062	F1	mg/Kg		51	70 - 130	5	35
	Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402	Sample Sample Result Qualifier <0.00201	Result Qualifier Added <0.00201	Result Qualifier Added Result <0.00201	Result Qualifier Added Result Qualifier <0.00201	Result Qualifier Added Result Qualifier Unit <0.00201	Result Qualifier Added Result Qualifier Unit D <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00201

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-43251/1-A

Matrix: Solid

Analysis Batch: 43191

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

Prep Batch: 43251

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/05/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/05/23 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/05/23 19:47	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	01/05/23 11:23	01/05/23 19:47	1
o-Terphenyl	109		70 - 130	01/05/23 11:23	01/05/23 19:47	1

Lab Sample ID: LCS 880-43251/2-A

Matrix: Solid Analysis Batch: 43191 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 43251

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	978.5		mg/Kg		98	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	924.6		mg/Kg		92	70 - 130
C10-C28)							

Job ID: 890-3744-1

Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

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

Lab Sample ID: LCS 880-43251/2-A **Client Sample ID: Lab Control Sample**

Limits

70 - 130

70 - 130

Matrix: Solid

Analysis Batch: 43191

Prep Type: Total/NA

Prep Batch: 43251

98 Lab Sample ID: LCSD 880-43251/3-A

Sample Sample

Camania Camania

104

LCS LCS %Recovery Qualifier

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 43191

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43251

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1009 101 70 - 130 3 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 999.4 mg/Kg 100 70 - 1308 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	118		70 - 130		
o-Terphenyl	110		70 - 130		

Lab Sample ID: 890-3757-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 43191

Prep Type: Total/NA

Prep Batch: 43251

	Sample	Sample	Spike	IVIO	IVIO				70 KeC	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	750.7		mg/Kg		70	70 - 130	
(GRO)-C6-C10	-10.0		000	005.0				0.7	70 400	
Diesel Range Organics (Over	<49.9	U	999	885.9		mg/Kg		87	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-3757-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 43191

Prep Type: Total/NA Prep Batch: 43251

	Sample	Sample	эріке	INIOD	MOD				%Rec		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	826.1		mg/Kg		78	70 - 130	10	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	999	913.9		mg/Kg		90	70 - 130	3	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	88		70 - 130

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

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-3744-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43075/1-A

Matrix: Solid

Analysis Batch: 43283

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit mg/Kg
 D mg/Kg
 Prepared Prepared 01/06/23 12:48
 Dil Fac 01

Lab Sample ID: LCS 880-43075/2-A

Matrix: Solid

Analysis Batch: 43283

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.8 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-43075/3-A

Matrix: Solid

Analysis Batch: 43283

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.3 108 mg/Kg 90 - 110

Lab Sample ID: 880-23210-A-41-B MS

Matrix: Solid

Analysis Batch: 43283

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 146 F1 249 421.8 F1 90 - 110 mg/Kg

Lab Sample ID: 880-23210-A-41-C MSD

Matrix: Solid

Analysis Batch: 43283

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 146 F1 249 422.5 F1 mg/Kg 111 90 - 110 20

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QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1 SDG: Lea County NM

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Lab Sample ID 890-3744-1	Client Sample ID SS12	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
		,			
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178

Analysis Batch: 43295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	8015B NM	43251
MB 880-43251/1-A	Method Blank	Total/NA	Solid	8015B NM	43251
LCS 880-43251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43251
LCSD 880-43251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43251
890-3757-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	43251
890-3757-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43251

Prep Batch: 43251

Lab Sample ID 890-3744-1	Client Sample ID SS12	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-43251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3757-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3757-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43075

Released to Imaging: 4/28/2023 12:49:26 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Soluble	Solid	DI Leach	
MB 880-43075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Soluble	Solid	300.0	43075
MB 880-43075/1-A	Method Blank	Soluble	Solid	300.0	43075
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	300.0	43075
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43075
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	43075
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43075

Lab Chronicle

Client: Ensolum

Job ID: 890-3744-1

Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Client Sample ID: SS12 Lab Sample ID: 890-3744-1

Date Collected: 12/28/22 14:00 Matrix: Solid
Date Received: 12/30/22 12:40

	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	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43295	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43396	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43251	01/05/23 11:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/06/23 03:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43075	01/03/23 12:04	KS	EET MID
Soluble	Analysis	300.0		1			43283	01/06/23 13:33	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1

SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certain	ed by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay illolude allalytes lo
the agency does not of	fer certification.	,	, , ,	ay include allalytes lo

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Method Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1

SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3744-1	SS12	Solid	12/28/22 14:00	12/30/22 12:40	0.5

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DN. Vanny

Relinquished by: (Signature)

Received by: (Signature)

2.30 22 1840

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020 2

: eurofins Хепсо **Environment Testing** Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Phone:

Company Name: Project Manager:

Ensolum, LLC

Company Name: Bill to: (if different)

601 N Marienfeld St Suite 400

Reporting: Level II Level III PST/UST TRRP

Level IV

State of Project:

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

Work Order Comments

www.xenco.com

Page

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Kalei Jennings

Ensolum, LLC

Hadlie Green

601 N Marienfeld St Suite 400

> Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

> > Work Order No:

City, State ZIP: N	Midland, TX 79701		City, State ZIP:		Midland, TX 79701	1, TX 7	9701			Repoining: Level in Lance	Vebound: Fever
	432-557-8895	Email:	Email: kjennings@ensolum.com; hgreen@ensolum.com	solum.	com:	ngree	າ@en:	solum	.com	Deliverables: EDD	ADaPT Other:
Project Name:	Wilder CTB Spill Can	Turn	Turn Around						ANALYSIS REC	QUEST	Preservative Codes
Project Number:	03D2024135	✓ Routine	Rush	Pres. Code				_			None: NO DI Water: H ₂ O
Project Location:	Lea County, NM	Due Date:			_						<u>~</u>
Sampler's Name:	Dmitry Nikanorov	TAT starts the	TAT starts the day received by								
PO#:		the lab, if rec	the lab, if received by 4:30pm	rs				_	-	-	H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes) No Wet Ice:	Yes No	nete	0)			_			H ₃ PO ₄ : HP
Samples Received Intact:	(Yes) No	Thermometer ID: (1)	LO OPEN	aran	300.						NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.0	P	PA:						Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No NIA	Temperature Reading:	40		S (EI			_	890-3744 Chair	of Custody	Zn Acetate+NaOH: Zn
Total Containers:	Correc	Corrected Temperature:	4.0		IDES	015)	8021		0000011100000		NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Time Sampled Sampled	Depth Grab/	# of Cont	CHLOR	TPH (8	BTEX (Sample Comments
SS12	S	12/28/2022 1400	0.5' Grab		×	×	×				
			-								Incident Number
	and the same of th	20.	7								W SC1 # 10 Press
		h									
	5				\perp		-				
1				\coprod	\coprod	\coprod	\parallel	\parallel			
							-				
Total 200.7 / 6010	10 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B	M Texas 11	AI Sb	AS E	3a Be	2 C	Ca	Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag SiO ₂ Na Ni Se Ag Ti U Hg 1631/2	Ag SiO ₂ Na Sr Ti Sn U V Zn Ha: 1631/245.1/7470/7471
ircle Method(s) an	Circle Method(s) and Metal(s) to be analyzed	ICLP / SF	CLP / SPLP BUILD ONCOM	11 11	OD AS DE DE	Da		5	Cu Fill Mile	14 OC 78	G.
otice: Signature of this do	voltee: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	es constitutes a valid pur ples and shall not assum	chase order from cl e any responsibility	ent com for any I	pany to	Eurofin	s Xenco, ses incu	its affil	ates and subcontractors.	It assigns standard terms and conditions e due to circumstances beyond the contro	onditions the control
Eurofins Xenco. A minir	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 Euromis Xenco, but not analyzed. These terms of the charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Euromis Xenco, but not analyzed.	to each project and a cna	rge of \$5 for each s	ampie sc	pmitted	10 5010	IIIIS VEII	co, pur	not analyzed. These terms	All De Cilibiace biology in Section 2	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3744-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3744 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3744-1

SDG Number: Lea County NM

List Ossumer Franchisc Midlead

Login Number: 3744
List Source: Eurofins Midland
List Number: 2
List Creation: 01/03/23 09:51 AM

Creator: Rodriguez, Leticia

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

ij 200

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 1/6/2023 6:12:37 PM

JOB DESCRIPTION

Wilder CTB Spill Can SDG NUMBER Lea County NM

JOB NUMBER

890-3745-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 1/6/2023 6:12:37 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: Wilder CTB Spill Can

Laboratory Job ID: 890-3745-1
SDG: Lea County NM

Table of Contents

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Definitions/Glossary

Job ID: 890-3745-1 Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

MCL

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" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1

SDG: Lea County NM

Job ID: 890-3745-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3745-1

Receipt

The sample was received on 12/30/2022 12:40 PM. 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 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS10 (890-3745-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 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.

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Ensolum Job ID: 890-3745-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS10

Date Collected: 12/28/22 13:50

Lab Sample ID: 890-3745-1 Matrix: Solid

Date Received: 12/30/22 12:40 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 17:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 17:44	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 17:44	,
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/04/23 15:26	01/05/23 17:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 15:26	01/05/23 17:44	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/04/23 15:26	01/05/23 17:44	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130			01/04/23 15:26	01/05/23 17:44	
1,4-Difluorobenzene (Surr)	109		70 - 130			01/04/23 15:26	01/05/23 17:44	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/06/23 08:35	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
		ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 01/06/23 11:39	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		<u> </u>	01/06/23 11:39	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	01/06/23 11:39 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:03 01/05/23 12:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27	01/06/23 11:39 Analyzed 01/05/23 12:03 01/05/23 12:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27	Analyzed 01/05/23 12:03 01/05/23 12:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared	01/06/23 11:39 Analyzed 01/05/23 12:03 01/05/23 12:03 01/05/23 12:03 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/04/23 09:27 01/04/23 09:27 01/04/23 09:27 Prepared 01/04/23 09:27	Analyzed 01/05/23 12:03 01/05/23 12:03 01/05/23 12:03 Analyzed 01/05/23 12:03	Dil Fac

5.03

7.60

mg/Kg

01/06/23 16:58

Released to Imaging: 4/28/2023 12:49:26 PM

Chloride

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Surrogate Summary

Client: Ensolum Job ID: 890-3745-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23188-A-1-E MS	Matrix Spike	101	109	
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108	
890-3745-1	SS10	105	109	
LCS 880-43178/1-A	Lab Control Sample	95	108	
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108	
MB 880-43178/5-A	Method Blank	99	101	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3745-1	SS10	117	135 S1+	
890-3746-A-1-B MS	Matrix Spike	116	120	
890-3746-A-1-C MSD	Matrix Spike Duplicate	117	124	
LCS 880-43132/2-A	Lab Control Sample	106	112	
LCSD 880-43132/3-A	Lab Control Sample Dup	95	104	
MB 880-43132/1-A	Method Blank	116	141 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Released to Imaging: 4/28/2023 12:49:26 PM

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4.0

13

Job ID: 890-3745-1 Client: Ensolum Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A

Matrix: Solid Analysis Batch: 43200 Prep Type: Total/NA

mg/Kg

Prep Batch: 43178

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 01/04/23 15:26 01/05/23 11:28 Toluene <0.00200 U 0.00200 mg/Kg 01/04/23 15:26 01/05/23 11:28 01/04/23 15:26 Ethylbenzene <0.00200 U 0.00200 01/05/23 11:28 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 01/04/23 15:26 01/05/23 11:28 o-Xylene <0.00200 U 0.00200 01/04/23 15:26 01/05/23 11:28 mg/Kg

0.00400

01/05/23 11:28

Client Sample ID: Method Blank

MB MB

<0.00400 U

Surrogate Qualifier %Recovery Limits Prepared Dil Fac Analyzed 70 - 130 01/04/23 15:26 01/05/23 11:28 4-Bromofluorobenzene (Surr) 99 101 01/04/23 15:26 1,4-Difluorobenzene (Surr) 70 - 130 01/05/23 11:28

Client Sample ID: Lab Control Sample

01/04/23 15:26

Lab Sample ID: LCS 880-43178/1-A **Matrix: Solid**

Xylenes, Total

Analysis Batch: 43200

Prep Type: Total/NA

Prep Batch: 43178

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09959 mg/Kg 100 70 - 130 Toluene 0.100 0.09381 mg/Kg 94 70 - 130 Ethylbenzene 0.100 0.09104 mg/Kg 91 70 - 130 70 - 130 m-Xylene & p-Xylene 0.200 0.1883 mg/Kg 94 0.100 o-Xylene 0.08972 mg/Kg 90 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 43200

Lab Sample ID: LCSD 880-43178/2-A

Prep Type: Total/NA Prep Batch: 43178

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene	0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09321		mg/Kg		93	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 880-23188-A-1-E MS

Matrix: Solid

Analysis Batch: 43200

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

Prep Batch: 43178

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130	
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130	

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Page 8 of 21

Prep Batch: 43178

Prep Type: Total/NA

Prep Batch: 43132

QC Sample Results

Client: Ensolum Job ID: 890-3745-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

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

Lab Sample ID: 880-23188-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 43200

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00201	U F1	0.101	0.04970	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1017	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 101 1,4-Difluorobenzene (Surr) 70 - 130 109

Lab Sample ID: 880-23188-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 43200									Prep	Batch:	43178
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.07783		mg/Kg		79	70 - 130	4	35
Toluene	<0.00201	U F1	0.0990	0.06118	F1	mg/Kg		61	70 - 130	5	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05304	F1	mg/Kg		54	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1076	F1	mg/Kg		54	70 - 130	6	35
o-Xylene	<0.00201	U F1	0.0990	0.05062	F1	mg/Kg		51	70 - 130	5	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 98 1,4-Difluorobenzene (Surr) 108 70 - 130

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

Lab Sample ID: MB 880-43132/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 43193

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
	Result <50.0 <50.0 <50.0	Result Qualifier	Result Qualifier RL	Result Qualifier RL Unit <50.0	Result Qualifier RL Unit D mg/Kg	Result Qualifier RL Unit D Prepared <50.0	Result Qualifier RL Unit D Prepared Analyzed <50.0

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	01/04/23 09:27	01/05/23 08:23	1
o-Terphenyl	141	S1+	70 - 130	01/04/23 09:27	01/05/23 08:23	1

Lab Sample ID: LCS 880-43132/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Analysis Batch: 43193

Spike LCS LCS %Rec Added Qualifier Analyte Result Unit %Rec Limits 1000 97 70 - 130 Gasoline Range Organics 973.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1092 mg/Kg 109 70 - 130

C10-C28)

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 43132

Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1

SDG: Lea County NM

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

Lab Sample ID: LCS 880-43132/2-A

LCS LCS

Matrix: Solid

Client: Ensolum

Analysis Batch: 43193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43132

Surrogate

%Recovery Qualifier Limits 1-Chlorooctane 106 70 - 130 o-Terphenyl 112 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43132

Lab Sample ID: LCSD 880-43132/3-A **Matrix: Solid**

Analysis Batch: 43193

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier L	Unit D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1093	n	mg/Kg	109	70 - 130	12	20
(GRO)-C6-C10 Diesel Range Organics (Over	1000	953.9	r	mg/Kg	95	70 - 130	14	20
C10-C28)								

LCSD LCSD

<49.9 U

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-3746-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

(GRO)-C6-C10

Diesel Range Organics (Over

Analysis Batch: 43193									Prep	Batch: 43132
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	1302		mg/Kg		130	70 - 130	

1249

mg/Kg

999

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 116 o-Terphenyl 120 70 - 130

Lab Sample ID: 890-3746-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 43193

Chefft Sample ID.	watrix Spike Duplicate
	Prep Type: Total/NA

70 - 130

123

Prep Batch: 43132

	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	999	1285		mg/Kg		129	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	999	1262		mg/Kg		125	70 - 130	1	20	
C40 C20\												

C10-C28)

MSD	MSD	
Recovery	Qualifier	Lin
117		70

Surrogate %F nits 1-Chlorooctane 70 - 130 117 o-Terphenyl 124 70 - 130

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

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-3745-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43075/1-A

Matrix: Solid

Analysis Batch: 43283

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit
 D mg/Kg
 Prepared
 Analyzed O1/06/23 12:48
 Dil Fac O1/06/23 12:48

Lab Sample ID: LCS 880-43075/2-A

Matrix: Solid

Analysis Batch: 43283

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.8 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-43075/3-A

Matrix: Solid

Analysis Batch: 43283

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.3 108 mg/Kg 90 - 110

Lab Sample ID: 880-23210-A-41-B MS

Matrix: Solid

Analysis Batch: 43283

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 146 F1 249 421.8 F1 90 - 110 mg/Kg

Lab Sample ID: 880-23210-A-41-C MSD

Matrix: Solid

Analysis Batch: 43283

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 146 F1 249 422.5 F1 mg/Kg 111 90 - 110 20

QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1 SDG: Lea County NM

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8021B	43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178

Analysis Batch: 43331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43132

Lab Sample ID 890-3745-1	Client Sample ID SS10	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3746-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132
890-3746-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43132
890-3746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43132

Analysis Batch: 43365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43075

-					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Soluble	Solid	DI Leach	
MB 880-43075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1 SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Soluble	Solid	300.0	43075
MB 880-43075/1-A	Method Blank	Soluble	Solid	300.0	43075
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	300.0	43075
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43075
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	43075
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43075

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Lab Chronicle

Client: Ensolum Job ID: 890-3745-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS10 Lab Sample ID: 890-3745-1

Date Collected: 12/28/22 13:50 Matrix: Solid Date Received: 12/30/22 12:40

	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	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43331	01/06/23 08:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43365	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 12:03	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43075	01/03/23 12:04	KS	EET MID
Soluble	Analysis	300.0		1			43283	01/06/23 16:58	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: 890-3745-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1

SDG: Lea County NM

5

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3745-1	SS10	Solid	12/28/22 13:50	12/30/22 12:40	0.5

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

Total

200.7 / 6010

200.8 / 6020:

8RCRA

13PPM

Texas 11

Al Sb As Ba

Ве

œ Cd

Ca S

င္ပ

Cu Fe

Р Mg

Mn Mo Ni K

Se

Ag SiO₂ Na

Š.

TI Sn U V

Zn

Hg: 1631 / 245.1 / 7470 / 7471

Sh As Ba Be Cd Cr Co Cu Ph Mn Mo Ni Se Ag TI U

its affiliates and subcontractors. It assigns standard terms and conditions

TCLP / SPLP 6010: 8RCRA

Chain of Custody

eurofins	Ofins Environment Testing		Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Work Order No:
		Hobbs, NM	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com Page of 1
Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings	Work Order Comments
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400	State of Project:
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701	Reporting: Level III Level III PST/UST TRRP Level IV
Phone:	432-557-8895	Email: kjennings@ensolu	Email: kjennings@ensolum.com; hgreen@ensolum.com	Deliverables: EDD
Project Name:	Wilder CTB Spill Can	Turn Around	ANALYSIS REQUEST	QUEST Preservative Codes
Project Number:	03D2024135	Routine Rush Code		None: NO DI Water: H ₂ O
roject Location:	Lea County, NM	Due Date:		Cool: Cool MeOH: Me
Sampler's Name:	Dmitry Nikanorov	TAT starts the day received by		HCL: HC HNO;: HN

PO#

SAMPLE RECEIPT Samples Received Intact: Cooler Custody Seals: Sample Custody Seals:

> Temp Blank: Yes

> > N_o

Wet loe:

No

Parameters

1000 V

the lab, if received by 4:30pm

Z

Sample Identification

Matrix

Sampled Date

Sampled

Time

Depth

Grab/

TPH (8015)

BTEX (8021

Comp

Cont # of Yes No NIA Yes No (N/A)

Temperature Reading: Correction Factor: Thermometer ID:

Corrected Temperature:

4.0

CHLORIDES (EPA: 300.0)

890-3745 Chain of Custody

NaHSO₄: NABIS

H2S04: H2

NaOH: Na

H3PO4: HP

SS10

S

12/28/2022

1350

0.5

Grab

Received by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time				
Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) A:30:33 34 5	o			
Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature)	4		4	
Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature)	O. ME	18.30.32 18	(We W)	DN KARTA
	Relinquished by: (Sig.	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na2S2O3: NaSO3

Sample Comments

Incident Number

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3745-1

SDG Number: Lea County NM

Login Number: 3745 List Number: 1 Creator: Clifton, Cloe List Source: Eurofins Carlsbad

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

1

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3745-1

SDG Number: Lea County NM

Login Number: 3745 List Source: Eurofins Midland List Number: 2

List Creation: 01/03/23 09:51 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/9/2023 4:23:08 PM

JOB DESCRIPTION

Wilder CTB Spill Can SDG NUMBER Lea County NM

JOB NUMBER

890-3746-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 1/9/2023 4:23:08 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

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Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3746-1
SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3746-1 Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation	These commonly	used abbreviations may	or may	not he	nresent in this report
ADDIEVIALIOII	These common	useu abbi eviations ma	y Oi illay	IIOL DE	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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive

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) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3746-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Job ID: 890-3746-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3746-1

Receipt

The sample was received on 12/30/2022 12:40 PM. 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 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS09 (890-3746-1).

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SS09 (890-3746-1). The container labels list <SAMPLE ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION REQUIRED>.

Login 890-3746

Sample Jars COC

SS09 12-28-22 13:50 0.5 SS09 12-28-22 13:45 0.5

Based off this infomation we can tell they are the same sample due to sample name,date,depth

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43488 and analytical batch 880-43513 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-3746-1

Client Sample Results

Client: Ensolum Job ID: 890-3746-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS09

Date Collected: 12/28/22 13:45 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 12:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/04/23 14:24	01/06/23 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 12:40	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/04/23 14:24	01/06/23 12:40	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130			01/04/23 14:24	01/06/23 12:40	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/04/23 14:24	01/06/23 12:40	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/06/23 15:28	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/06/23 11:39	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	<49.9	U	49.9	mg/Kg		01/04/23 09:27	01/05/23 10:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 09:27	01/05/23 10:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 09:27	01/05/23 10:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			01/04/23 09:27	01/05/23 10:57	1
o-Terphenyl	149	S1+	70 - 130			01/04/23 09:27	01/05/23 10:57	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.3	F1	5.02	mg/Kg			01/09/23 11:45	1

Surrogate Summary

Client: Ensolum Job ID: 890-3746-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3738-A-1-E MS	Matrix Spike	99	105	
890-3738-A-1-F MSD	Matrix Spike Duplicate	105	109	
890-3746-1	SS09	111	106	
LCS 880-43171/1-A	Lab Control Sample	104	106	
LCSD 880-43171/2-A	Lab Control Sample Dup	102	107	
MB 880-43171/5-A	Method Blank	99	105	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-3746-1	SS09	134 S1+	149 S1+	
90-3746-1 MS	SS09	116	120	
90-3746-1 MSD	SS09	117	124	
CS 880-43132/2-A	Lab Control Sample	106	112	
CSD 880-43132/3-A	Lab Control Sample Dup	95	104	
MB 880-43132/1-A	Method Blank	116	141 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum

Job ID: 890-3746-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A

Project/Site: Wilder CTB Spill Can

Matrix: Solid

Analysis Batch: 43326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43171

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	0	1/04/23 14:24	01/06/23 11:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130	0	1/04/23 14:24	01/06/23 11:51	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43171

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07559 mg/Kg 76 70 - 130 Toluene 0.100 0.07256 mg/Kg 73 70 - 130 0.100 72 Ethylbenzene 0.07155 mg/Kg 70 - 130 0.200 0.1466 73 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.07250 70 - 130 o-Xylene mg/Kg 73

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-43171/2-A

Lab Sample ID: LCS 880-43171/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 43326

Analysis Batch: 43326

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43171

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene	0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene	0.100	0.07359		mg/Kg		74	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-3738-A-1-E MS

Matrix: Solid

Analysis Batch: 43326

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

Prep Batch: 43171

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09220		mg/Kg	_	92	70 - 130	
Toluene	<0.00201	U	0.100	0.08852		mg/Kg		88	70 - 130	

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Client: Ensolum Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1

SDG: Lea County NM

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

Lab Sample ID: 890-3738-A-1-E MS **Matrix: Solid**

Lab Sample ID: 890-3738-A-1-F MSD

Analysis Batch: 43326

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43171

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00201 U 0.100 0.08473 85 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 U 0.200 0.1759 mg/Kg 88 70 - 130 0.100 o-Xylene <0.00201 U 0.08390 84 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43171

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier RPD Limit Analyte babbA Unit %Rec Limits Benzene <0.00201 U 0.0990 0.1018 mg/Kg 103 70 - 130 10 35 Toluene <0.00201 U 0.0990 0.09453 mg/Kg 95 70 - 130 7 35 Ethylbenzene <0.00201 U 0.0990 0.09255 93 70 - 130 9 35 mg/Kg 0.198 97 70 - 130 35 m-Xylene & p-Xylene <0.00402 U 0.1923 mg/Kg 9 <0.00201 U 0.0990 0.09249 93 70 - 130 o-Xylene mg/Kg 10

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-43132/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 43326

Analysis Batch: 43193

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43132

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 09:27	01/05/23 08:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	oared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	01/04/2	23 09:27	01/05/23 08:23	1
o-Terphenyl	141	S1+	70 - 130	01/04/2	23 09:27	01/05/23 08:23	1

Lab Sample ID: LCS 880-43132/2-A

Matrix: Solid

Analysis Batch: 43193

C10-C28)

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

Prep Batch: 43132

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	973.0		mg/Kg		97	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1092		ma/Ka		109	70 - 130

Job ID: 890-3746-1 SDG: Lea County NM

Project/Site: Wilder CTB Spill Can Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-43132/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 43193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43132

%Recovery Qualifier

LCS LCS

Surrogate 1-Chlorooctane 106 70 - 130 o-Terphenyl 112 70 - 130

Lab Sample ID: LCSD 880-43132/3-A Client Sample ID: Lab Control Sample Dup

Limits

Matrix: Solid

Analysis Batch: 43193

Prep Type: Total/NA

Prep Batch: 43132

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1093 109 70 - 13012 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 953.9 95 mg/Kg 70 - 13020 14

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-3746-1 MS

Matrix: Solid

Analysis Batch: 43193

Client Sample ID: SS09 Prep Type: Total/NA

Prep Batch: 43132

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 1302 mg/Kg 130 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1249 mg/Kg 123 70 - 130 C10-C28)

70 - 130

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 116

Lab Sample ID: 890-3746-1 MSD

Matrix: Solid

o-Terphenyl

Analysis Batch: 43193

Client Sample ID: SS09 Prep Type: Total/NA

Prep Batch: 43132

Sample Sample MSD MSD %Rec RPD Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 999 1285 129 20 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1262 mg/Kg 125 70 - 130 20

C10-C28)

MSD MSD

120

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	117	70 - 130
o-Terphenyl	124	70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SS09

Client Sample ID: SS09

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-3746-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43488/1-A

Matrix: Solid

Analysis Batch: 43513

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit mg/Kg
 D Prepared Manalyzed
 Analyzed Dil Fac Dil Fa

Lab Sample ID: LCS 880-43488/2-A

Matrix: Solid

Analysis Batch: 43513

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.7 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-43488/3-A

Matrix: Solid

Analysis Batch: 43513

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 270.9 90 - 110 mg/Kg 108

Lab Sample ID: 890-3746-1 MS

Matrix: Solid

Analysis Batch: 43513

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 41.3 F1 251 319.8 F1 111 90 - 110 mg/Kg

Lab Sample ID: 890-3746-1 MSD

Matrix: Solid

Analysis Batch: 43513

Sample Sample Spike MSD MSD %Rec RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 41.3 F1 251 322.8 F1 mg/Kg 112 90 - 110 20

QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1 SDG: Lea County NM

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8021B	43171
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43171
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43171
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43171

Analysis Batch: 43421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8015NM Prep	
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3746-1 MS	SS09	Total/NA	Solid	8015NM Prep	
890-3746-1 MSD	SS09	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132
890-3746-1 MS	SS09	Total/NA	Solid	8015B NM	43132
890-3746-1 MSD	SS09	Total/NA	Solid	8015B NM	43132

Analysis Batch: 43364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43488

-					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Soluble	Solid	DI Leach	
MB 880-43488/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum Job ID: 890-3746-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1 MS	SS09	Soluble	Solid	DI Leach	
890-3746-1 MSD	SS09	Soluble	Solid	DI Leach	

Analysis Batch: 43513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Soluble	Solid	300.0	43488
MB 880-43488/1-A	Method Blank	Soluble	Solid	300.0	43488
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	300.0	43488
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43488
890-3746-1 MS	SS09	Soluble	Solid	300.0	43488
890-3746-1 MSD	SS09	Soluble	Solid	300.0	43488

Lab Chronicle

Client: Ensolum Job ID: 890-3746-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS09 Lab Sample ID: 890-3746-1

Matrix: Solid

Date Collected: 12/28/22 13:45 Date Received: 12/30/22 12:40

	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	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43421	01/06/23 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43364	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 10:57	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1			43513	01/09/23 11:45	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 4/28/2023 12:49:26 PM

Accreditation/Certification Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1

SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1

SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1

SDG: Lea County NM

	a a		.		
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3746-1	SS09	Solid	12/28/22 13:45	12/30/22 12:40	0.5

Chain of Custody

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

	Environi	Environment lesting	Midland, TX	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:	
	Venco		EL Paso, Hobbs, Ni	EL Paso, I X (915) 585-3443, Lubbock, I X (806) 794-1286 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com Page	of
Project Manager: H	Hadlie Green		Bill to: (If different)	Kalei Jennings	ğ	
	Ensolum, LLC		Company Name:	Ensolum, LLC	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐	Superfund [
	601 N Marienfeld St Suite 400	ite 400	Address:	601 N Marienfeld St Suite 400	State of Project:	
e ZIP:	Midland, TX 79701		City, State ZIP:	Midland, TX 79701	Reporting: Level II	Level IV
	432-557-8895	En	Email: kjennings@ensol	kjennings@ensolum.com; hgreen@ensolum.com	Deliverables: EDD ADaPT Other:	
Project Name:	Wilder CTB Spill Can		Turn Around	ANALYSIS RE	EQUEST Preservative Codes	ve Codes
Project Number:	03D2024135	√ Rou	ine Rush Code		None: NO	DI Water: H ₂ O
Project Location:	Lea County, NM	M Due Date:			Coal: Cool	MeOH: Me
Sampler's Name:	Dmitry Nikanorov		ts the day received by		HCL: HC	HNO3: HN
PO#:			the lab, if received by 4:30pm		H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No Wet Ice:	e: Yes No		H ₃ PO ₄ : HP	
Samples Received Intact:	(Kes) No	Thermometer ID:	F1000		NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	10.0		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No NIA	Temperature Reading:	£ . e)		Zn Acetate+NaOH: Zn	H: Zn
Sample Identification	Matrix	Date Time Sampled Sampled	Depth Comp Cont	TPH (801	Sample Comments	omments
SS09	S	12/28/2022 1345	0.5' Grab 1	×		
					Incident Number	Number
					20% () 20	41350N
	}	7100				
3	F.					
			+			
Total 200.7 / 6010	Total 200.7 / 6010 200.8 / 6020:	8RC	RA 13PPM Texas 11 ALS	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U Ni Se Ag Tl U Hg: $1631/245.1/7470$	V Zn 17471
					the serious standard torms and o	
Notice: Signature of this doc of service. Eurofins Xenco v of Eurofins Xenco. A minimu	:ument and relinquishment of will be liable only for the cost of um charge of \$85.00 will be ap	samples constitutes a vali of samples and shall not a plied to each project and	d purchase order from client ssume any responsibility for a charge of \$5 for each samp	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	s. It assigns standard terms and conditions are due to circumstances beyond the control ms will be enforced unless previously negotiated.	
Relinquished by: (Signature)	Signature)	Received by (Signature)	gnature)	Date/Time Relinquished by: (Signature)	ле)	Date/Time
DN. Vame		(to carly	O	0 HB10005.C		
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Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3746-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3746 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3746-1 SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 3746 List Number: 2 List Creation: 01/03/23 09:51 AM

Creator: Rodriguez, Leticia

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 1/9/2023 4:25:39 PM

JOB DESCRIPTION

Wilder CTB Spill Can SDG NUMBER Lea County NM

JOB NUMBER

890-3753-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 1/9/2023 4:25:39 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3753-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum

Job ID: 890-3753-1

Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1

SDG: Lea County NM

Job ID: 890-3753-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3753-1

Receipt

The samples were received on 12/30/2022 12:40 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3753-1), SS02 (890-3753-2), SS03 (890-3753-3), SS04 (890-3753-4), SS05 (890-3753-5), SS06 (890-3753-6), SS07 (890-3753-7) and SS08 (890-3753-8).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SS01 (890-3753-1), SS02 (890-3753-2), SS03 (890-3753-3), SS04 (890-3753-4), SS05 (890-3753-5), SS06 (890-3753-6), SS07 (890-3753-7) and SS08 (890-3753-8). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.

Login 890-3753

Sample Jars COC

 SS02 12-28-22 12:40 0.5
 SS02 12-28-22 12:45 0.5

 SS07 12-28-22 13:45 0.5
 SS07 12-28-22 14:30 0.5

 SS08 12-28-22 13:50 0.5
 SS08 12-28-22 14:35 0.5

Based off this infomation we can tell they are the same sample due to sample name, date, depth

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-43276 and analytical batch 880-43290 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-3753-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43488 and analytical batch 880-43513 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Lab Sample ID: 890-3753-1

Client Sample Results

Client: Ensolum Job ID: 890-3753-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS01

Date Collected: 12/28/22 12:40 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 19:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/05/23 13:55	01/05/23 19:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/05/23 13:55	01/05/23 19:10	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/05/23 13:55	01/05/23 19:10	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/06/23 13:47	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/23 10:36	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	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 11:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 11:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 11:49	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	
Surrogate	, , , , , , , , , , , , , , , , , , , ,							Dil Fac
Surrogate 1-Chlorooctane	108		70 - 130			01/04/23 08:24	01/04/23 11:49	
			70 - 130 70 - 130			01/04/23 08:24 01/04/23 08:24	01/04/23 11:49 01/04/23 11:49	1
1-Chlorooctane o-Terphenyl	108 100	ography - So	70 - 130					Dil Fac
1-Chlorooctane	108 100 s, lon Chromato	ography - So Qualifier	70 - 130	Unit	<u>D</u>			1

Client Sample ID: SS02

Date Collected: 12/28/22 12:45 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/05/23 13:55	01/05/23 19:35	1
m-Xylene & p-Xylene	0.0186		0.00403	mg/Kg		01/05/23 13:55	01/05/23 19:35	1
o-Xylene	0.00750		0.00202	mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Xylenes, Total	0.0261		0.00403	mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130			01/05/23 13:55	01/05/23 19:35	1

Eurofins Carlsbad

Lab Sample ID: 890-3753-2

Matrix: Solid

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Job ID: 890-3753-1

Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS02

Lab Sample ID: 890-3753-2

Matrix: Solid

Sample Depth: 0.5

Date Collected: 12/28/22 12:45

Date Received: 12/30/22 12:40

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	78	70 - 130	01/05/23 13:55	01/05/23 19:35	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0261	0.00403	mg/Kg			01/06/23 13:47	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC))					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	263	49.9	mg/Kg			01/05/23 10:36	1

Ana	alyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	soline Range Organics RO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 12:57	1
	sel Range Organics (Over 0-C28)	185		49.9	mg/Kg		01/04/23 08:24	01/04/23 12:57	1
	Range Organics (Over 3-C36)	78.2		49.9	mg/Kg		01/04/23 08:24	01/04/23 12:57	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 - 130	01/04/23 08:24	01/04/23 12:57	1
o Tornhonyl	00	70 120	01/04/22 00:24	01/04/22 12:57	1

Method: MCAWW 300.0 - Anions. Ion C	hromatograp	hv - Soluble			
o-Terphenyl	99	70 - 130	01/04/23 08:24	01/04/23 12:57	1
1-Chlorooctane	111	70 - 130	01/04/23 08:24	01/04/23 12:57	1

Method: MoATTT 300.0 - Amons,	ion omomatography - solu	ibie					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5200	50.3	ma/Ka			01/09/23 13:54	10

Lab Sample ID: 890-3753-3 **Client Sample ID: SS03 Matrix: Solid**

Date Collected: 12/28/22 12:50 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Mothod: SW846 8021B	Volatile Organic	Compounds (GC)

Michiga. Offoro Ooz ID - Volatile C	rgaine comp	ounus (CC)	/					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
o-Xylene	0.00337		0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/05/23 13:55	01/05/23 20:00	1

4-Bromofluorobenzene (Surr)	108	70 - 130	01/05/23 13:55	01/05/23 20:00	1
1,4-Difluorobenzene (Surr)	118	70 - 130	01/05/23 13:55	01/05/23 20:00	1
_					

Mothod:	AL SOP Total BTFX - Total BTFX Ca	doulation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/06/23 13:47	1

Matrix: Solid

Lab Sample ID: 890-3753-3

Job ID: 890-3753-1

Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS03

Date Collected: 12/28/22 12:50 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	129		49.9	mg/Kg			01/05/23 10:36	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	61.1	49.9	mg/Kg		01/04/23 08:24	01/04/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9 U	49.9	mg/Kg		01/04/23 08:24	01/04/23 13:18	1
Oll Range Organics (Over C28-C36)	67.5	49.9	mg/Kg		01/04/23 08:24	01/04/23 13:18	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaiyzea	DII Fac
1-Chlorooctane	113	70 - 130	01/04/23 08:24	01/04/23 13:18	1
o-Terphenyl	103	70 - 130	01/04/23 08:24	01/04/23 13:18	1

Method: MCAWW 300.0 - Anions, Id	on Chromatog	graphy - Sc	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8560		100	mg/Kg			01/09/23 14:00	20

Client Sample ID: SS04 Lab Sample ID: 890-3753-4 Date Collected: 12/28/22 12:55 **Matrix: Solid**

Date Received: 12/30/22 12:40

Sample Depth: 0.5

Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)
Analyte	Result	Qualifier

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 20:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/05/23 13:55	01/05/23 20:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			01/05/23 13:55	01/05/23 20:25	1
1,4-Difluorobenzene (Surr)	92		70 - 130			01/05/23 13:55	01/05/23 20:25	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/06/23 13:47	1

Method: SW846 8015 NM - Diesel I	Range Organi	ics (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T TD.:			40.0				0.1/0.5/0.0.10.0.0	

ı	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Total TPH	<49.8	U	49.8	mg/Kg			01/05/23 10:36	1	
	 Method: SW846 8015B NM - Diese	Pango Orga	nice (DPO) (ec)						

Method. 341040 00 13D 14M - Dieser Kange	Joiga	ilica (DICO) (C	30)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		01/04/23 08:24	01/04/23 13:41	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		01/04/23 08:24	01/04/23 13:41	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/04/23 08:24	01/04/23 13:41	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3753-4

Client: Ensolum Job ID: 890-3753-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS04

Date Collected: 12/28/22 12:55 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	01/04/23 08:24	01/04/23 13:41	1
o-Terphenyl	111		70 - 130	01/04/23 08:24	01/04/23 13:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 6740 49.8 mg/Kg 01/09/23 14:06

Client Sample ID: SS05 Lab Sample ID: 890-3753-5 Date Collected: 12/28/22 13:20

Date Received: 12/30/22 12:40

Sample Depth: 0.5

Method: SW846 8021B - Volatile Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			01/05/23 13:55	01/05/23 20:50	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/05/23 13:55	01/05/23 20:50	1
- Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/06/23 13:47	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/23 10:36	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	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 14:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 14:03	1
	40.0	11	49.9	mg/Kg		01/04/23 08:24	01/04/23 14:03	1
Oll Range Organics (Over C28-C36)	<49.9	O	43.3					
Oll Range Organics (Over C28-C36) Surrogate	<49.9 %Recovery		Limits	99		Prepared	Analyzed	Dil Fac
Surrogate						Prepared 01/04/23 08:24	Analyzed 01/04/23 14:03	Dil Fac
OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery		Limits					
Surrogate 1-Chlorooctane	%Recovery110100	Qualifier				01/04/23 08:24	01/04/23 14:03	
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 110 100 s, lon Chromato	Qualifier		Unit	D	01/04/23 08:24	01/04/23 14:03	

Client: Ensolum

Job ID: 890-3753-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS06

Date Collected: 12/28/22 13:25 Date Received: 12/30/22 12:40

Sample Depth: 0.5

Lab Sample ID: 890-3753-6

01/04/23 08:24

01/04/23 14:25

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 21:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/05/23 13:55	01/05/23 21:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			01/05/23 13:55	01/05/23 21:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/05/23 13:55	01/05/23 21:16	1

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 01/06/23 13:47

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 01/05/23 10:36 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 01/04/23 08:24 01/04/23 14:25 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/04/23 08:24 01/04/23 14:25 C10-C28) 50.0 01/04/23 08:24 OII Range Organics (Over C28-C36) <50.0 U 01/04/23 14:25 mg/Kg %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 70 - 130 01/04/23 08:24 01/04/23 14:25 1-Chlorooctane 113

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 50.2 Chloride 5330 mg/Kg 01/09/23 14:19

70 - 130

101

Client Sample ID: SS07 Lab Sample ID: 890-3753-7

Date Collected: 12/28/22 14:30 Date Received: 12/30/22 12:40

Sample Depth: 0.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 21:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/05/23 13:55	01/05/23 21:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/05/23 13:55	01/05/23 21:41	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3753-7

Client: Ensolum

Job ID: 890-3753-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS07

Date Collected: 12/28/22 14:30 Date Received: 12/30/22 12:40

Sample Depth: 0.5

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89	70 - 130	01/05/23 13:55	01/05/23 21:41	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			01/06/23 13:47	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 l	U	50.0	mg/Kg			01/05/23 10:36	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	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 14:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112	70 - 130	01/04/23 08:24	01/04/23 14:47	1
o-Terphenyl	101	70 - 130	01/04/23 08:24	01/04/23 14:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.8		5.01	mg/Kg			01/09/23 14:25	1

Client Sample ID: SS08 Lab Sample ID: 890-3753-8

Date Collected: 12/28/22 14:35 Date Received: 12/30/22 12:40

Sample Depth: 0.5

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

Method. 344040 0021D - Volatil	e Organic Comp	ounus (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130			01/05/23 13:55	01/05/23 22:06	1

Surrogate	%Recovery	Quaimer	Limits	Prepared	Anaryzea	DII Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	01/05/23 13:55	01/05/23 22:06	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/05/23 13:55	01/05/23 22:06	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	ma/Ka			01/06/23 13:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/23 10:36	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3753-8

Client Sample Results

Client: Ensolum Job ID: 890-3753-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS08

Date Collected: 12/28/22 14:35 Date Received: 12/30/22 12:40

S

Sample Depth: 0.5								
	esel Range Orga	nics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 15:09	1
Diosal Pango Organics (Over	<10.0	11	10.0	ma/Ka		01/04/23 08:24	01/04/23 15:00	1

Diesel Range Organics (Over mg/Kg 01/04/23 08:24 C10-C28) mg/Kg Oll Range Organics (Over C28-C36) <49.9 U 49.9 01/04/23 08:24 01/04/23 15:09 Surrogate Dil Fac %Recovery Qualifier Limits Prepared Analyzed

1-Chlorooctane 70 - 130 01/04/23 08:24 01/04/23 15:09 106 o-Terphenyl 97 70 - 130 01/04/23 08:24 01/04/23 15:09

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed 24.9 01/09/23 14:31 5 Chloride 2470 mg/Kg

Surrogate Summary

Client: Ensolum Job ID: 890-3753-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3753-1	SS01	86	94	
890-3753-1 MS	SS01	92	114	
890-3753-1 MSD	SS01	102	102	
890-3753-2	SS02	69 S1-	78	
890-3753-3	SS03	108	118	
890-3753-4	SS04	82	92	
890-3753-5	SS05	85	94	
890-3753-6	SS06	80	106	
890-3753-7	SS07	86	89	
890-3753-8	SS08	72	87	
LCS 880-43276/1-A	Lab Control Sample	88	105	
LCSD 880-43276/2-A	Lab Control Sample Dup	96	107	
MB 880-43276/5-A	Method Blank	57 S1-	93	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3753-1	SS01	108	100	
890-3753-1 MS	SS01	103	81	
890-3753-1 MSD	SS01	101	79	
890-3753-2	SS02	111	99	
890-3753-3	SS03	113	103	
890-3753-4	SS04	118	111	
890-3753-5	SS05	110	100	
890-3753-6	SS06	113	101	
890-3753-7	SS07	112	101	
890-3753-8	SS08	106	97	
LCS 880-43112/2-A	Lab Control Sample	113	93	
LCSD 880-43112/3-A	Lab Control Sample Dup	112	92	
MB 880-43112/1-A	Method Blank	121	114	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3753-1 Client: Ensolum Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43276/5-A

Lab Sample ID: LCS 880-43276/1-A

Matrix: Solid

Analysis Batch: 43290

Matrix: Solid Analysis Batch: 43290 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43276

	MB	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 18:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 18:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 18:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/05/23 13:55	01/05/23 18:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 18:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/05/23 13:55	01/05/23 18:45	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	01/05/23 13:55	01/05/23 18:45	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/05/23 13:55	01/05/23 18:45	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43276

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09927 mg/Kg 99 70 - 130 Toluene 0.100 0.09850 mg/Kg 98 70 - 130 0.100 101 Ethylbenzene 0.1013 mg/Kg 70 - 130 0.200 0.2117 106 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09896 70 - 130 o-Xylene mg/Kg 99

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-43276/2-A

Analysis Batch: 43290

Prep Type: Total/NA Prep Batch: 43276

	Spike	LCSD	LUSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	4	35	
Toluene	0.100	0.09013		mg/Kg		90	70 - 130	9	35	
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130	0	35	
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	3	35	

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-3753-1 MS

Matrix: Solid

Analysis Batch: 43290

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 43276

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.100	0.09748		mg/Kg	_	97	70 - 130	
Toluene	<0.00198	U	0.100	0.09076		mg/Kg		91	70 - 130	

QC Sample Results

Job ID: 890-3753-1 Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

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

Lab Sample ID: 890-3753-1 MS **Matrix: Solid**

Analysis Batch: 43290

Prep Type: Total/NA Prep Batch: 43276 Sample Sample Spike MS MS %Rec

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00198	U	0.100	0.09127		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1905		mg/Kg		95	70 - 130
o-Xylene	<0.00198	U	0.100	0.08991		mg/Kg		90	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

Lab Sample ID: 890-3753-1 MSD

Matrix: Solid

Analysis Batch: 43290

Client Sample ID: SS01 Prep Type: Total/NA Prep Batch: 43276

Client Sample ID: SS01

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte babbA Limits Unit 0.0998 Benzene <0.00198 U 0.1080 mg/Kg 108 70 - 130 10 35 Toluene <0.00198 U 0.0998 0.1067 mg/Kg 107 70 - 130 16 35 Ethylbenzene <0.00198 U 0.0998 0.1049 mg/Kg 105 70 - 130 14 35 0.200 107 70 - 130 m-Xylene & p-Xylene <0.00396 U 0.2142 mg/Kg 12 35 0.0998 <0.00198 U 0.1025 70 - 130 o-Xylene mg/Kg 103 13

MSD MSD

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

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

Lab Sample ID: MB 880-43112/1-A

Matrix: Solid

Analysis Batch: 43104

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 43112

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 01/04/23 08:24 01/04/23 09:14 <50.0 U mg/Kg (GRO)-C6-C10 50.0 01/04/23 08:24 01/04/23 09:14 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 01/04/23 08:24 01/04/23 09:14 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	01/0	04/23 08:24	01/04/23 09:14	1
o-Terphenyl	114		70 - 130	01/0	04/23 08:24	01/04/23 09:14	1

Lab Sample ID: LCS 880-43112/2-A

Analysis Batch: 43104

Matrix: Solid

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

Prep Batch: 43112

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	937.8		mg/Kg		94	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	851.1		mg/Kg		85	70 - 130
C10-C28)							

Job ID: 890-3753-1 Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

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

LCS LCS

Lab Sample ID: LCS 880-43112/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 43104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43112

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 113 70 - 130 o-Terphenyl 93 70 - 130

Lab Sample ID: LCSD 880-43112/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 43104

Prep Type: Total/NA Prep Batch: 43112

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 957.7 96 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 876.0 mg/Kg 88 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-3753-1 MS **Client Sample ID: SS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 43104 Prep Batch: 43112

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 960.7 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 799.8 mg/Kg 80 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 103 o-Terphenyl 70 - 130 81

Lab Sample ID: 890-3753-1 MSD Client Sample ID: SS01

Matrix: Solid Prep Type: Total/NA Analysis Batch: 43104 Prep Batch: 43112

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	965.7		mg/Kg		95	70 - 130	1	20	
Diesel Range Organics (Over	<49.9	U	999	788.5		mg/Kg		79	70 - 130	1	20	
C10-C28)												

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

Client: Ensolum Project/Site: Wilder CTB Spill Can Job ID: 890-3753-1

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43488/1-A

Matrix: Solid

Analysis Batch: 43513

Client Sample ID: Method Blank **Prep Type: Soluble**

Dil Fac Analyte Result Qualifier RLUnit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/09/23 11:26

Lab Sample ID: LCS 880-43488/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43513

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.7 mg/Kg 102 90 - 110

мв мв

Lab Sample ID: LCSD 880-43488/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43513

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.9 mg/Kg 108 90 - 110

Lab Sample ID: 890-3746-A-1-G MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 43513

Spike MS MS Sample Sample %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 41.3 251 319.8 F1 90 - 110 mg/Kg

Lab Sample ID: 890-3746-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43513

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 41.3 F1 251 322.8 F1 Chloride mg/Kg 112 90 - 110

Lab Sample ID: 890-3752-A-3-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43513

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result Unit D %Rec Limits Chloride 1780 F1 1240 3198 F1 mg/Kg 114 90 - 110

Lab Sample ID: 890-3752-A-3-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 43513

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Result Qualifier Analyte Limits RPD Limit Unit %Rec Chloride 1780 F1 1240 3522 F1 mg/Kg 141 90 - 110 20

QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1 SDG: Lea County NM

GC VOA

Prep Batch: 43276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	5035	
890-3753-2	SS02	Total/NA	Solid	5035	
890-3753-3	SS03	Total/NA	Solid	5035	
890-3753-4	SS04	Total/NA	Solid	5035	
890-3753-5	SS05	Total/NA	Solid	5035	
890-3753-6	SS06	Total/NA	Solid	5035	
890-3753-7	SS07	Total/NA	Solid	5035	
890-3753-8	SS08	Total/NA	Solid	5035	
MB 880-43276/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43276/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43276/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3753-1 MS	SS01	Total/NA	Solid	5035	
890-3753-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 43290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8021B	43276
890-3753-2	SS02	Total/NA	Solid	8021B	43276
890-3753-3	SS03	Total/NA	Solid	8021B	43276
890-3753-4	SS04	Total/NA	Solid	8021B	43276
890-3753-5	SS05	Total/NA	Solid	8021B	43276
890-3753-6	SS06	Total/NA	Solid	8021B	43276
890-3753-7	SS07	Total/NA	Solid	8021B	43276
890-3753-8	SS08	Total/NA	Solid	8021B	43276
MB 880-43276/5-A	Method Blank	Total/NA	Solid	8021B	43276
LCS 880-43276/1-A	Lab Control Sample	Total/NA	Solid	8021B	43276
LCSD 880-43276/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43276
890-3753-1 MS	SS01	Total/NA	Solid	8021B	43276
890-3753-1 MSD	SS01	Total/NA	Solid	8021B	43276

Analysis Batch: 43398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	Total BTEX	
890-3753-2	SS02	Total/NA	Solid	Total BTEX	
890-3753-3	SS03	Total/NA	Solid	Total BTEX	
890-3753-4	SS04	Total/NA	Solid	Total BTEX	
890-3753-5	SS05	Total/NA	Solid	Total BTEX	
890-3753-6	SS06	Total/NA	Solid	Total BTEX	
890-3753-7	SS07	Total/NA	Solid	Total BTEX	
890-3753-8	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8015B NM	43112
890-3753-2	SS02	Total/NA	Solid	8015B NM	43112
890-3753-3	SS03	Total/NA	Solid	8015B NM	43112
890-3753-4	SS04	Total/NA	Solid	8015B NM	43112
890-3753-5	SS05	Total/NA	Solid	8015B NM	43112
890-3753-6	SS06	Total/NA	Solid	8015B NM	43112

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QC Association Summary

Client: Ensolum Job ID: 890-3753-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 43104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-7	SS07	Total/NA	Solid	8015B NM	43112
890-3753-8	SS08	Total/NA	Solid	8015B NM	43112
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015B NM	43112
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43112
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43112
890-3753-1 MS	SS01	Total/NA	Solid	8015B NM	43112
890-3753-1 MSD	SS01	Total/NA	Solid	8015B NM	43112

Prep Batch: 43112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8015NM Prep	
890-3753-2	SS02	Total/NA	Solid	8015NM Prep	
890-3753-3	SS03	Total/NA	Solid	8015NM Prep	
890-3753-4	SS04	Total/NA	Solid	8015NM Prep	
890-3753-5	SS05	Total/NA	Solid	8015NM Prep	
890-3753-6	SS06	Total/NA	Solid	8015NM Prep	
890-3753-7	SS07	Total/NA	Solid	8015NM Prep	
890-3753-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3753-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-3753-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8015 NM	
890-3753-2	SS02	Total/NA	Solid	8015 NM	
890-3753-3	SS03	Total/NA	Solid	8015 NM	
890-3753-4	SS04	Total/NA	Solid	8015 NM	
890-3753-5	SS05	Total/NA	Solid	8015 NM	
890-3753-6	SS06	Total/NA	Solid	8015 NM	
890-3753-7	SS07	Total/NA	Solid	8015 NM	
890-3753-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Soluble	Solid	DI Leach	
890-3753-2	SS02	Soluble	Solid	DI Leach	
890-3753-3	SS03	Soluble	Solid	DI Leach	
890-3753-4	SS04	Soluble	Solid	DI Leach	
890-3753-5	SS05	Soluble	Solid	DI Leach	
890-3753-6	SS06	Soluble	Solid	DI Leach	
890-3753-7	SS07	Soluble	Solid	DI Leach	
890-3753-8	SS08	Soluble	Solid	DI Leach	
MB 880-43488/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3746-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1 SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-3752-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3752-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Soluble	Solid	300.0	43488
890-3753-2	SS02	Soluble	Solid	300.0	43488
890-3753-3	SS03	Soluble	Solid	300.0	43488
890-3753-4	SS04	Soluble	Solid	300.0	43488
890-3753-5	SS05	Soluble	Solid	300.0	43488
890-3753-6	SS06	Soluble	Solid	300.0	43488
890-3753-7	SS07	Soluble	Solid	300.0	43488
890-3753-8	SS08	Soluble	Solid	300.0	43488
MB 880-43488/1-A	Method Blank	Soluble	Solid	300.0	43488
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	300.0	43488
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43488
890-3746-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	43488
890-3746-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43488
890-3752-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	43488
890-3752-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43488

Client Sample ID: SS01

Client: Ensolum

Date Collected: 12/28/22 12:40 Date Received: 12/30/22 12:40

Project/Site: Wilder CTB Spill Can

Lab Sample ID: 890-3753-1

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			5.05 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 11:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		5			43513	01/09/23 13:35	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-3753-2

Date Collected: 12/28/22 12:45

Date Received: 12/30/22 12:40

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			4.96 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 12:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 13:54	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-3753-3 **Matrix: Solid**

Date Collected: 12/28/22 12:50 Date Received: 12/30/22 12:40

	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	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 13:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		20			43513	01/09/23 14:00	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-3753-4

Date Collected: 12/28/22 12:55 Date Received: 12/30/22 12:40

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID

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Matrix: Solid

Job ID: 890-3753-1

Client: Ensolum Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Client Sample ID: SS04 Lab Sample ID: 890-3753-4 Date Collected: 12/28/22 12:55

Matrix: Solid

Date Received: 12/30/22 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 13:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 14:06	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-3753-5

Date Collected: 12/28/22 13:20 **Matrix: Solid**

Date Received: 12/30/22 12:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 20:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 14:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 14:12	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-3753-6

Date Collected: 12/28/22 13:25 Date Received: 12/30/22 12:40

	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	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 21:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 14:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 14:19	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-3753-7

Date Collected: 12/28/22 14:30 Date Received: 12/30/22 12:40

_	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	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	43112 43104	01/04/23 08:24 01/04/23 14:47	DM SM	EET MID EET MID

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

EET MID

01/09/23 14:25

СН

43513

Client: Ensolum

Job ID: 890-3753-1

Project/Site: Wilder CTB Spill Can

SDG: Lea County NM

Client Sample ID: SS07 Lab Sample ID: 890-3753-7

Date Collected: 12/28/22 14:30
Date Received: 12/30/22 12:40
Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 43488 KS Leach 4.99 g 50 mL 01/09/23 09:37 **EET MID**

1

Client Sample ID: SS08 Lab Sample ID: 890-3753-8

Date Collected: 12/28/22 14:35 Matrix: Solid

Date Received: 12/30/22 12:40

Analysis

Soluble

	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	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 15:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		5			43513	01/09/23 14:31	CH	EET MID

Laboratory References:

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

300.0

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3753-1 Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-22-25	06-30-23
The following analytes	and the almost and the Alaba management has		and the state of the second control of the s	
the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	• '	Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

Method Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1

SDG: Lea County NM

Laboratory	
EET MID	
EET MID	
EET MID	

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3753-1	SS01	Solid	12/28/22 12:40	12/30/22 12:40	0.5
890-3753-2	SS02	Solid	12/28/22 12:45	12/30/22 12:40	0.5
890-3753-3	SS03	Solid	12/28/22 12:50	12/30/22 12:40	0.5
890-3753-4	SS04	Solid	12/28/22 12:55	12/30/22 12:40	0.5
890-3753-5	SS05	Solid	12/28/22 13:20	12/30/22 12:40	0.5
890-3753-6	SS06	Solid	12/28/22 13:25	12/30/22 12:40	0.5
890-3753-7	SS07	Solid	12/28/22 14:30	12/30/22 12:40	0.5
890-3753-8	SS08	Solid	12/28/22 14:35	12/30/22 12:40	0.5

1

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121314

: eurofins

City, State ZIP:

Midland, TX 79701

City, State ZIP:

Midland, TX 79701

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

Level IV

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

Work Order Comments

www.xenco.com

Page

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State of Project:

601 N Marienfeld St Suite 400

Kalei Jennings Ensolum, LLC

Bill to: (if different)
Company Name:

601 N Marienfeld St Suite 400

Project Manager: Company Name:

Hadlie Green Ensolum, LLC

Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 382-7550, Carlsbad, NM (575) 988-3199

Work Order No:

1 DNIKOWAL	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:	10		SS08	SS07	SS06	SS05	SS04	SS03	SS02	SS01	Sample Identification	Total Containers:	Sample Custody Seals: Yes	Cooler Custody Seats: Yes	Samples Received Intact: Yes	SAMPLE RECEIPT Jemi	PO#:		Project Location: Lea	3.5	Project Name: Wilde	Phone: 432-557-8895
(TWO C	Receiyu	nquishment of samples con ly for the cost of samples ar 85.00 will be applied to each	be analyzed		N 11.70	20	S 12/28/2022	S 12/28/2022	S 12/28/2022	Matrix Date Sampled	Corrected T	No N/A Temperature Reading	No N/A Correction Factor	No Thermometer ID:	Iemp Blank: (Yes No)	Dmitry Nikanorov	Lea County, NM	03D2024135	Wilder CTB Spill Can)5					
-5	Received by: (Signature)	stitutes a valid purchase nd shall not assume any n project and a charge o	TCLP / SPLP	8RCRA 13PPM	,	7 22	2 1435 0.5	2 1430 0.5'	2 1325 0.5	2 1320 0.5	2 1255 0.5	2 1250 0.5	2 1245 0.5	2 1240 0.5	Time Depth	Corrected Temperature:		-actor:	er ID:	Wet loe:	the lab, if received by 4:30pm	TAT starts the day received by	Due Date:	✓ Routine	Turn Around	Email: kjer
2		e order from client con responsibility for any f \$5 for each sample s	TCLP / SPLP 6010: 8RCRA	Texas 11 Al Sk			Grab	Grab 1	Grab 1	Grab 1	pth Grab/ # of Comp Cont	4.0	4.0	Q' Q'	arai	Yes No	Ц	received by		Rush Code	und	Email: kiennings@ensolum.com, hgreen@ensolum.com				
2.30.22 182	Date/Time	npany to Eurofins Xeno losses or expenses inc ubmitted to Eurofins X	Sb As Ba Be C	Sb As Ba Be B			×	× × ×	×	× ×	×	×	× ×	×	TPH (86)15)		PA:	300.	0)						.com; hgreen@e
2 ()	Relinquished by: (Signature)	co, its affiliates and subcontractors. It curred by the client if such losses are lenco, but not analyzed. These terms w	Cd Cr Co Cu Pb Mn Mo N	Cd Ca Cr Co Cu Fe Pb N													890-3753 Chain of Custody								ANALYSIS REQ	
	re) Received by: (Signature)	 It assigns standard terms and conditions are due to circumstances beyond the control ms will be enforced unless previously negotia 	Mn Mo Ni Se Ag TI U Hg	b Mg Mn Mo Ni K Se Ag													odv IIII III				-				EQUEST	Deliverables: EDD
	ure)	tions ontrol egotiated.	Hg: 1631 / 245.1 / 7470 / 7471	Ag SiO ₂ Na Sr Tl Sn U							しかりなり	Incident			Sample C	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ NABIS	H₃PO₄: HP	H ₂ SO ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preservat	ADaPT Other
	Date/Time		7471	V Zn							741221XI	Incident Number			Sample Comments	Acid: SAPC	OH: Zn	ω			NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3753-1 SDG Number: Lea County NM

Login Number: 3753 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3753-1 SDG Number: Lea County NM

Login Number: 3753 List Source: Eurofins Midland List Number: 2

List Creation: 01/03/23 09:51 AM

Creator: Rodriguez, Leticia

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

Eurofins Carlsbad

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St.

Suite 400 Midland, Texas 79701

Generated 2/23/2023 12:08:26 PM

JOB DESCRIPTION

Wilder CTB SDG NUMBER 03D2024135

JOB NUMBER

890-4103-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 2/23/2023 12:08:26 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: Wilder CTB
Laboratory Job ID: 890-4103-1
SDG: 03D2024135

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Definitions/Glossary

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

Qualifiers

GC VOA Qualifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Wilder CTB

Job ID: 890-4103-1 SDG: 03D2024135

Job ID: 890-4103-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4103-1

Receipt

The samples were received on 2/14/2023 8:43 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01A (890-4103-1), PH01D (890-4103-2), PH02A (890-4103-3), PH02D (890-4103-4), PH03A (890-4103-5), PH03D (890-4103-6), PH04A (890-4103-7), PH04D (890-4103-8), PH05A (890-4103-9), PH05D (890-4103-10), PH06A (890-4103-11), PH06D (890-4103-12), PH07A (890-4103-13), PH07D (890-4103-14), PH08A (890-4103-15) and PH08D (890-4103-16).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46534 and analytical batch 880-46482 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01A (890-4103-1), PH01D (890-4103-2), PH02A (890-4103-3), PH02D (890-4103-4), PH03D (890-4103-6), PH04A (890-4103-7), PH04D (890-4103-8), PH05A (890-4103-9), PH05D (890-4103-10), PH06A (890-4103-11), PH06D (890-4103-12), PH07A (890-4103-13), PH07D (890-4103-14), PH08A (890-4103-15) and PH08D (890-4103-16). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46840 and analytical batch 880-46927 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-4159-A-1-J), (890-4159-A-1-H MS) and (890-4159-A-1-I 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.

GC Semi VOA

Method 8015MOD NM: The method blank for preparation batch 880-46509 and analytical batch 880-46560 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46509 and analytical batch 880-46560 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46463 and analytical batch 880-46815 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-4103-1

Client: Ensolum Job ID: 890-4103-1
Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH01A

Date Collected: 02/13/23 09:40 Date Received: 02/14/23 08:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 03:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/16/23 14:15	02/17/23 03:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			02/16/23 14:15	02/17/23 03:37	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/16/23 14:15	02/17/23 03:37	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/20/23 13:54	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)					
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (C	GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (C	GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0	ics (DRO) (0 Qualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <50.0 sel Range Organ Result	Qualifier U nics (DRO) Qualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <	Qualifier U nics (DRO) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 02/20/23 15:10	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <50.0 sel Range Organ Result	Qualifier U nics (DRO) Qualifier U u U U U U U U U U U U U U U U U U U	RL 50.0 (GC)	Unit mg/Kg		Prepared	Analyzed 02/20/23 15:10 Analyzed	1 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 <50.0 sel Range Orga Result <50.0	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unics Unics (DRO) Unics (DRO)	(GC) RL 50.0 RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 02/16/23 09:41	Analyzed 02/20/23 15:10 Analyzed 02/17/23 14:02	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 C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unics Unics (DRO) Unics (DRO)	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41	Analyzed 02/20/23 15:10 Analyzed 02/17/23 14:02 02/17/23 14:02	1 Dil Fac 1 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) Oll Range Organics (Over C28-C36)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	cics (DRO) (Control of the control o	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41	Analyzed 02/20/23 15:10 Analyzed 02/17/23 14:02 02/17/23 14:02	Dil Fac 1 1 Dil Fac 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 C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	cics (DRO) (Control of the control o	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared	Analyzed 02/20/23 15:10 Analyzed 02/17/23 14:02 02/17/23 14:02 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 C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Range Organ Result	ics (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared 02/16/23 09:41	Analyzed 02/20/23 15:10 Analyzed 02/17/23 14:02 02/17/23 14:02 Analyzed 02/17/23 14:02	Dil Fac 1 1 Dil Fac 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 C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 <8ecovery 99 108 Chromatograp	ics (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared 02/16/23 09:41	Analyzed 02/20/23 15:10 Analyzed 02/17/23 14:02 02/17/23 14:02 Analyzed 02/17/23 14:02	1 Dil Fac 1 Dil Fac 1

Client Sample ID: PH01D Lab Sample ID: 890-4103-2

Date Collected: 02/13/23 09:55 Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 03:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/16/23 14:15	02/17/23 03:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			02/16/23 14:15	02/17/23 03:58	1

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Matrix: Solid

3

4

6

8

10

12

13

Matrix: Solid

Lab Sample ID: 890-4103-2

Job ID: 890-4103-1

Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH01D Date Collected: 02/13/23 09:55

Date Received: 02/14/23 08:43

Sample Depth: 4

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108	70 - 130	02/16/23 14:15	02/17/23 03:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/20/23 13:54	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/20/23 15:10	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	ININ - Dieser Itali	ge Organics	(DitO)	(00)

		,	· /					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 14:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 14:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	02/16/23 09:41	02/17/23 14:24	1
o-Terphenyl	105	70 - 130	02/16/23 09:41	02/17/23 14:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4590	50.5	mg/Kg			02/21/23 01:45	10

Client Sample ID: PH02A Lab Sample ID: 890-4103-3 Matrix: Solid

Date Collected: 02/13/23 10:15 Date Received: 02/14/23 08:43

Sample Depth: 1

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

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			02/16/23 14:15	02/17/23 04:18	1
1 1 Differenchemanne (Cerry)	106		70 120			00/16/02 14:15	00/47/00 04:49	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	02/16/23 14:15	02/17/23 04:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/16/23 14:15	02/17/23 04:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/20/23 15:10	1

Job ID: 890-4103-1 SDG: 03D2024135

Client Sample ID: PH02A

Sample Depth: 1

Client: Ensolum

Project/Site: Wilder CTB

Client Sample ID: PH02A	Lab Sample ID: 890-4103-3
Pate Collected: 02/13/23 10:15	Matrix: Solid
12to Received: 02/14/23 08:43	

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/16/23 09:41	02/17/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/16/23 09:41	02/17/23 14:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/16/23 09:41	02/17/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			02/16/23 09:41	02/17/23 14:47	1
o-Terphenyl	96		70 - 130			02/16/23 09:41	02/17/23 14:47	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2940		25.0	mg/Kg			02/21/23 01:51	5

Lab Sample ID: 890-4103-4 **Client Sample ID: PH02D** Matrix: Solid

Date Collected: 02/13/23 10:30 Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 04:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/16/23 14:15	02/17/23 04:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			02/16/23 14:15	02/17/23 04:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/16/23 14:15	02/17/23 04:39	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/20/23 13:54	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/16/23 09:41	02/17/23 15:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/16/23 09:41	02/17/23 15:09	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/16/23 09:41	02/17/23 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			02/16/23 09:41	02/17/23 15:09	1
o-Terphenyl	115		70 - 130			02/16/23 09:41	02/17/23 15:09	1

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2/23/2023

Job ID: 890-4103-1

SDG: 03D2024135

Client Sample ID: PH02D

Date Collected: 02/13/23 10:30 Date Received: 02/14/23 08:43

Sample Depth: 4

Client: Ensolum

Project/Site: Wilder CTB

Lab Sample ID: 890-4103-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4270		24.9	mg/Kg			02/21/23 02:10	5

Client Sample ID: PH03A Lab Sample ID: 890-4103-5 **Matrix: Solid**

Date Collected: 02/13/23 10:45 Date Received: 02/14/23 08:43

Sample Depth: 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 04:59	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/16/23 14:15	02/17/23 04:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			02/16/23 14:15	02/17/23 04:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/16/23 14:15	02/17/23 04:59	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/20/23 13:54	1
Mothod: SW946 9045 NM Diggs	l Banga Organ	ica (DBO) (20)					
Method: SW846 8015 NM - Diese Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		_ =			
-			49.9	mg/Kg			02/20/23 15:10	1
-			49.9	mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)		mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier		mg/Kg Unit	D	Prepared	02/20/23 15:10 Analyzed	1 Dil Fac
		Qualifier	(GC)		<u>D</u>	Prepared 02/16/23 09:41		
Analyte Gasoline Range Organics	Result	Qualifier U	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	(GC) RL 49.9	Unit mg/Kg	<u>D</u>	02/16/23 09:41	Analyzed 02/17/23 15:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U U	(GC) RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	02/16/23 09:41	Analyzed 02/17/23 15:31 02/17/23 15:31	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U U U	(GC) RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	02/16/23 09:41 02/16/23 09:41 02/16/23 09:41	Analyzed 02/17/23 15:31 02/17/23 15:31 02/17/23 15:31	1 1

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Analyzed

02/21/23 02:16

RL

25.1

Unit

mg/Kg

D

Prepared

Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

3770

Matrix: Solid

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH03D Lab Sample ID: 890-4103-6

Date Collected: 02/13/23 11:00 Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 05:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/16/23 14:15	02/17/23 05:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			02/16/23 14:15	02/17/23 05:20	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/16/23 14:15	02/17/23 05:20	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			02/20/23 13:54	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
							Analyzed	DII Fac
Total TPH	<49.9	U	49.9	mg/Kg	— <u>-</u>		02/20/23 15:10	Dil Fac
-			49.9		_ =			Dil Fac
-	sel Range Orga		49.9		<u></u>	Prepared		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	49.9 (GC)	mg/Kg		<u> </u>	02/20/23 15:10	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	49.9 (GC)	mg/Kg		Prepared	02/20/23 15:10 Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 16:22	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U U	(GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 16:22 02/17/23 16:22	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U U	49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 16:22 02/17/23 16:22	Dil Fac 1 1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <49.9	nics (DRO) Qualifier U U	49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared	02/20/23 15:10 Analyzed 02/17/23 16:22 02/17/23 16:22 02/17/23 16:22 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.9	U Qualifier 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 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 16:22 02/17/23 16:22 02/17/23 16:22 Analyzed 02/17/23 16:22	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9	U Qualifier 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 02/16/23 09:41 02/16/23 09:41 02/16/23 09:41 Prepared 02/16/23 09:41	02/20/23 15:10 Analyzed 02/17/23 16:22 02/17/23 16:22 02/17/23 16:22 Analyzed 02/17/23 16:22	1 Dil Fac

Client Sample ID: PH04A Lab Sample ID: 890-4103-7

Date Collected: 02/13/23 12:20 Date Received: 02/14/23 08:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:10	1
Toluene	0.221		0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:10	1
Ethylbenzene	0.0957		0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:10	1
m-Xylene & p-Xylene	<0.200	U	0.200	mg/Kg		02/21/23 11:07	02/23/23 05:34	50
o-Xylene	<0.100	U	0.100	mg/Kg		02/21/23 11:07	02/23/23 05:34	50
Xylenes, Total	<0.200	U	0.200	mg/Kg		02/21/23 11:07	02/23/23 05:34	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	450	S1+	70 - 130			02/16/23 14:15	02/17/23 07:10	1

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Matrix: Solid

Job ID: 890-4103-1

Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH04A Lab Sample ID: 890-4103-7 Date Collected: 02/13/23 12:20

Matrix: Solid

Date Received: 02/14/23 08:43 Sample Depth: 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	116	70 - 130	02/16/23 14:15	02/17/23 07:10	1

Method: TAL SOP Total BTEX	- Total BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F

•				•	•	
Total BTEX	0.317	0.200	mg/Kg		02/20/23 13:54	1
_						

Method: 5W846 8U15 NW - Diesei R	ange Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2200	49.8	mg/Kg			02/20/23 15:10	1

Method: SW846 8015B NM - Dies	sel Range Organics (DRO)	(GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	237	49.8	mg/Kg		02/16/23 09:41	02/17/23 16:44	1
Diesel Range Organics (Over C10-C28)	1790	49.8	mg/Kg		02/16/23 09:41	02/17/23 16:44	1
Oll Range Organics (Over C28-C36)	169	49.8	mg/Kg		02/16/23 09:41	02/17/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130	02/16/23 09:41	02/17/23 16:44	1
o-Terphenyl	30	S1-	70 - 130	02/16/23 09:41	02/17/23 16:44	1

Method: EPA 300.0 - Anions, ion C	nromatograpny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4320	24.8	mg/Kg			02/21/23 02:28	5

Lab Sample ID: 890-4103-8 Client Sample ID: PH04D

Date Collected: 02/13/23 12:35 **Matrix: Solid** Date Received: 02/14/23 08:43

Sample Depth: 4

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

moundar official course	no organio comp	ounas (oo	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			02/16/23 14:15	02/17/23 07:31	1

,	•••	rrepared	Allalyzeu	Diriac
4-Bromofluorobenzene (Surr) 135	S1+ 70 - 130	02/16/23 14:15	02/17/23 07:31	1
1,4-Difluorobenzene (Surr) 109	70 - 130	02/16/23 14:15	02/17/23 07:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/20/23 13:54	1

Job ID: 890-4103-1 SDG: 03D2024135

Client: Ensolum Project/Site: Wilder CTB

Client Sample ID: PH04D Date Collected: 02/13/23 12:35

Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-8

Matrix: Solid

Sample Depth: 4

Method: SW846 8015 NM - Diesel	Range Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	225	49.9	mg/Kg			02/20/23 15:10	1
_							

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Unit Analyzed Dil Fac RL Prepared <49.9 U 49.9 02/16/23 09:41 02/17/23 17:05 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 49.9 mg/Kg 02/16/23 09:41 02/17/23 17:05 225 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 02/16/23 09:41 02/17/23 17:05 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 101 70 - 130 02/16/23 09:41 02/17/23 17:05 o-Terphenyl 110 70 - 130 02/16/23 09:41 02/17/23 17:05

Method: EPA 300.0 - Anions, Ion C	hromatography - Solu	ıble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830	49.8	mg/Kg			02/21/23 02:35	10

Client Sample ID: PH05A

Date Collected: 02/13/23 12:40 Date Received: 02/14/23 08:43

Sample Depth: 1

Lab Sample ID: 890-4103-9 **Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/16/23 14:15	02/17/23 07:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			02/16/23 14:15	02/17/23 07:51	1
1 1 Differenchemanne (Court)	109		70 - 130			02/16/23 14:15	02/17/23 07:51	1
1,4-Difluorobenzene (Surr)	109		70 - 130			02/10/23 14.13	02/11/25 01.51	,
Method: TAL SOP Total BTEX		culation	70 - 130			02/10/23 14.13	02/1//23 07:31	,
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation Qualifier	70 - 730 RL	Unit	D	Prepared	Analyzed	
- ' '	- Total BTEX Cald	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Gualifier	RL 0.00398	mg/Kg		Prepared	Analyzed 02/20/23 13:54	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0	mg/Kg		Prepared	Analyzed 02/20/23 13:54 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0	mg/Kg		Prepared	Analyzed 02/20/23 13:54 Analyzed	

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02/17/23 17:27

02/17/23 17:27

50.0

50.0

mg/Kg

mg/Kg

02/16/23 09:41

02/16/23 09:41

<50.0 U

<50.0 U

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

C10-C28)

Job ID: 890-4103-1

Client: Ensolum
Project/Site: Wilder CTB

SDG: 03D2024135

Lab Sample ID: 890-4103-9

Matrix: Solid

Client Sample ID: PH05A

Date Collected: 02/13/23 12:40 Date Received: 02/14/23 08:43

Sample Depth: 1

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130	02/16/23 09:41	02/17/23 17:27	1
o-Terphenyl	99	70 - 130	02/16/23 09:41	02/17/23 17:27	1

 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 3860
 25.0
 mg/Kg
 02/21/23 02:41
 5

Client Sample ID: PH05D

Date Collected: 02/13/23 12:55

Lab Sample ID: 890-4103-10

Matrix: Solid

Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 08:11	
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 08:11	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			02/16/23 14:15	02/17/23 08:11	
1,4-Difluorobenzene (Surr)	106		70 - 130			02/16/23 14:15	02/17/23 08:11	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/20/23 13:54	
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			02/19/23 12:20	
Total TPH : Method: SW846 8015B NM - Die:				mg/Kg			02/19/23 12:20	
• •	sel Range Orga			mg/Kg Unit	D	Prepared	02/19/23 12:20 Analyzed	
: Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 02/16/23 09:47		Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier U*1	(GC)	Unit	<u>D</u>		Analyzed	Dil Fa
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <49.9	nics (DRO) Qualifier U*1	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	02/16/23 09:47	Analyzed 02/17/23 19:15	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U *1 U	(GC) RL 49.9	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	02/16/23 09:47	Analyzed 02/17/23 19:15 02/17/23 19:15	Dil Fa
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U *1 U	(GC) RL 49.9 49.9 49.9	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47	Analyzed 02/17/23 19:15 02/17/23 19:15 02/17/23 19:15	Dil Fa
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	nics (DRO) Qualifier U *1 U	(GC) RL 49.9 49.9 49.9 Limits	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared	Analyzed 02/17/23 19:15 02/17/23 19:15 02/17/23 19:15 Analyzed	Dil Fa
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.9	nics (DRO) Qualifier U*1 U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70.130 70.130	<mark>Unit</mark> mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	Analyzed 02/17/23 19:15 02/17/23 19:15 02/17/23 19:15 Analyzed 02/17/23 19:15	Dil Fa
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 101 94 Chromatograp	nics (DRO) Qualifier U*1 U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70.130 70.130	<mark>Unit</mark> mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	Analyzed 02/17/23 19:15 02/17/23 19:15 02/17/23 19:15 Analyzed 02/17/23 19:15	Dil Fa

Matrix: Solid

Lab Sample ID: 890-4103-11

Client: Ensolum Job ID: 890-4103-1
Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH06A

Date Collected: 02/13/23 13:00 Date Received: 02/14/23 08:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 08:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/16/23 14:15	02/17/23 08:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			02/16/23 14:15	02/17/23 08:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/16/23 14:15	02/17/23 08:32	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			02/20/23 13:54	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/19/23 12:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte			(00)					
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics			• •	Unit mg/Kg	<u>D</u>	Prepared 02/16/23 09:47	Analyzed 02/17/23 19:37	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U *1	RL		<u>D</u>	<u>·</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8	U *1	49.8 49.8	mg/Kg	<u>D</u>	02/16/23 09:47	02/17/23 19:37	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8	U *1	RL 49.8	mg/Kg	<u>D</u>	02/16/23 09:47	02/17/23 19:37	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 <49.8 <49.8 %Recovery	U*1 U	### ### ##############################	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 <i>Prepared</i>	02/17/23 19:37 02/17/23 19:37 02/17/23 19:37 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 <49.8 <49.8	U*1 U	RL 49.8 49.8 49.8	mg/Kg	<u> </u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47	02/17/23 19:37 02/17/23 19:37 02/17/23 19:37	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.8 <49.8 <49.8 %Recovery	U*1 U	### ### ##############################	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 <i>Prepared</i>	02/17/23 19:37 02/17/23 19:37 02/17/23 19:37 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) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8 <49.8 <49.8 %Recovery 101 95	U *1 U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	02/17/23 19:37 02/17/23 19:37 02/17/23 19:37 Analyzed 02/17/23 19:37	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 <49.8 **Recovery 101 95 Chromatograp	U *1 U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/16/23 09:47 02/16/23 09:47 02/16/23 09:47 Prepared 02/16/23 09:47	02/17/23 19:37 02/17/23 19:37 02/17/23 19:37 Analyzed 02/17/23 19:37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: PH06D

Date Collected: 02/13/23 13:15

Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 08:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/16/23 14:15	02/17/23 08:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			02/16/23 14:15	02/17/23 08:52	

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Matrix: Solid

Lab Sample ID: 890-4103-12

Matrix: Solid

Job ID: 890-4103-1 SDG: 03D2024135

Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH06D Lab Sample ID: 890-4103-12

Date Collected: 02/13/23 13:15
Date Received: 02/14/23 08:43

Sample Depth: 4

Client: Ensolum

Method: SW846 8021B	- Volatile Organic	Compounds ((GC) (Continued)
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Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107	70 - 130	02/16/23 14:15	02/17/23 08:52	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	ma/Ka		.	02/20/23 13:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/20/23 15:10	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	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:22	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89	70 - 130	02/17/23 09:00	02/18/23 04:22	1
o-Terphenyl	100	70 - 130	02/17/23 09:00	02/18/23 04:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	863	4.98	mg/Kg			02/16/23 23:10	1

Client Sample ID: PH07A

Date Collected: 02/13/23 13:30

Lab Sample ID: 890-4103-13

Matrix: Solid

Date Collected: 02/13/23 13:30 Date Received: 02/14/23 08:43

Sample Depth: 1

 Mathad.	CIMO 4C	0024D	Valatila Ossania	Compounds (GC)
viernoa:	SVVA4n	AUZID .	· voiatile Organic	: Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			02/16/23 14:15	02/17/23 09:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/16/23 14:15	02/17/23 09:13	1

Method: TAI	SOP Total BTEX - Total BTEX Calculation	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	ma/Ka			02/20/23 13:54	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			02/20/23 15:10	1

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Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH07A

Lab Sample ID: 890-4103-13 Date Collected: 02/13/23 13:30 Matrix: Solid Date Received: 02/14/23 08:43

Sample Depth: 1

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:45	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			02/17/23 09:00	02/18/23 04:45	1
o-Terphenyl	88		70 - 130			02/17/23 09:00	02/18/23 04:45	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		4.96	mg/Kg			02/16/23 23:14	1

Client Sample ID: PH07D Lab Sample ID: 890-4103-14 Matrix: Solid

Date Collected: 02/13/23 13:45 Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 09:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			02/16/23 14:15	02/17/23 09:33	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/16/23 14:15	02/17/23 09:33	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			02/20/23 13:54	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/20/23 15:10	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/17/23 09:00	02/18/23 05:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/23 09:00	02/18/23 05:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/23 09:00	02/18/23 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			02/17/23 09:00	02/18/23 05:07	1

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Released to Imaging: 4/28/2023 12:49:26 PM

Job ID: 890-4103-1

Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH07D Lab Sample ID: 890-4103-14 Date Collected: 02/13/23 13:45

Matrix: Solid

Date Received: 02/14/23 08:43 Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		4.98	mg/Kg			02/16/23 23:19	1

Lab Sample ID: 890-4103-15 Client Sample ID: PH08A

Date Collected: 02/13/23 14:00 Matrix: Solid

Date Received: 02/14/23 08:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 09:54	
Toluene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 09:54	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 09:54	
m-Xylene & p-Xylene	< 0.00396	U	0.00396	mg/Kg		02/16/23 14:15	02/17/23 09:54	
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/16/23 14:15	02/17/23 09:54	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/16/23 14:15	02/17/23 09:54	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			02/16/23 14:15	02/17/23 09:54	
1,4-Difluorobenzene (Surr)	108		70 - 130			02/16/23 14:15	02/17/23 09:54	
· Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/20/23 13:54	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) ((GC)	I I mit	_			
Allalyte							Analyzod	Dil Ea
*				Unit mg/Kg	D	Prepared	Analyzed	
Total TPH	<49.9		49.9	mg/Kg		Prepared	02/20/23 15:10	
	<49.9	U	49.9		U	Prepared		
Total TPH Method: SW846 8015B NM - Dies	<49.9	U	49.9		D	Prepared		,
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9	nics (DRO) Qualifier	49.9 (GC)	mg/Kg			02/20/23 15:10	Dil Fac
Total TPH	<49.9 sel Range Orga Result	nics (DRO) Qualifier	49.9 (GC)	mg/Kg		Prepared	02/20/23 15:10 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/17/23 09:00	02/20/23 15:10 Analyzed 02/18/23 05:30	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U	(GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 09:00 02/17/23 09:00	02/20/23 15:10 Analyzed 02/18/23 05:30 02/18/23 05:30	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	nics (DRO) Qualifier U	49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00	02/20/23 15:10 Analyzed 02/18/23 05:30 02/18/23 05:30 02/18/23 05:30	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	nics (DRO) Qualifier U	49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared	02/20/23 15:10 Analyzed 02/18/23 05:30 02/18/23 05:30 02/18/23 05:30 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 87 <98	Oualifier U Qualifier 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 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared 02/17/23 09:00	02/20/23 15:10 Analyzed 02/18/23 05:30 02/18/23 05:30 02/18/23 05:30 Analyzed 02/18/23 05:30	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	\$\sel \text{Range Orga Result} \\	Oualifier U Qualifier 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 02/17/23 09:00 02/17/23 09:00 02/17/23 09:00 Prepared 02/17/23 09:00	02/20/23 15:10 Analyzed 02/18/23 05:30 02/18/23 05:30 02/18/23 05:30 Analyzed 02/18/23 05:30	Dil Fac

Matrix: Solid

Lab Sample ID: 890-4103-16

Job ID: 890-4103-1

Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH08D

Date Collected: 02/13/23 14:15 Date Received: 02/14/23 08:43

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 10:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/16/23 14:15	02/17/23 10:14	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			02/16/23 14:15	02/17/23 10:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/16/23 14:15	02/17/23 10:14	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/20/23 13:54	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	169	<u>quamor</u>	49.9	mg/Kg			02/20/23 15:00	1
Method: SW846 8015B NM - Dies	sol Rango Orga	nics (DRO)	(GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/17/23 09:56	02/18/23 18:08	1
Diesel Range Organics (Over C10-C28)	169		49.9	mg/Kg		02/17/23 09:56	02/18/23 18:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/23 09:56	02/18/23 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			02/17/23 09:56	02/18/23 18:08	1
o-Terphenyl	95		70 - 130			02/17/23 09:56	02/18/23 18:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4930		49.7	mg/Kg			02/16/23 23:29	10

Surrogate Summary

Job ID: 890-4103-1 Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24844-A-1-A MS	Matrix Spike	123	103	
880-24844-A-1-B MSD	Matrix Spike Duplicate	128	102	
890-4103-1	PH01A	133 S1+	105	
890-4103-2	PH01D	140 S1+	108	
890-4103-3	PH02A	137 S1+	106	
890-4103-4	PH02D	133 S1+	108	
890-4103-5	PH03A	129	106	
890-4103-6	PH03D	136 S1+	109	
890-4103-7	PH04A	450 S1+	116	
890-4103-8	PH04D	135 S1+	109	
890-4103-9	PH05A	137 S1+	109	
890-4103-10	PH05D	143 S1+	106	
890-4103-11	PH06A	133 S1+	106	
890-4103-12	PH06D	138 S1+	107	
890-4103-13	PH07A	137 S1+	106	
890-4103-14	PH07D	134 S1+	106	
890-4103-15	PH08A	136 S1+	108	
890-4103-16	PH08D	137 S1+	108	
890-4159-A-1-H MS	Matrix Spike	140 S1+	97	
890-4159-A-1-I MSD	Matrix Spike Duplicate	143 S1+	11 S1-	
LCS 880-46534/1-A	Lab Control Sample	127	106	
LCS 880-46840/1-A	Lab Control Sample	126	116	
LCSD 880-46534/2-A	Lab Control Sample Dup	128	106	
LCSD 880-46840/2-A	Lab Control Sample Dup	111	111	
MB 880-46421/5-A	Method Blank	119	98	
MB 880-46534/5-A	Method Blank	121	102	
MB 880-46840/5-A	Method Blank	78	81	
		75	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 Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24755-A-1-C MS	Matrix Spike	105	101	
880-24755-A-1-D MSD	Matrix Spike Duplicate	110	105	
880-24875-A-1-A MS	Matrix Spike	103	89	
880-24875-A-1-B MSD	Matrix Spike Duplicate	93	84	
890-4099-A-1-C MS	Matrix Spike	105	93	
890-4099-A-1-D MSD	Matrix Spike Duplicate	101	90	
890-4100-A-1-D MS	Matrix Spike	113	110	
890-4100-A-1-E MSD	Matrix Spike Duplicate	109	107	
890-4103-1	PH01A	99	108	
890-4103-2	PH01D	90	105	
890-4103-3	PH02A	85	96	

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB
Job ID: 890-4103-1
SDG: 03D2024135

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	Percent Surrogate Recovery (Acceptance
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4103-4	PH02D	104	115	·
390-4103-5	PH03A	96	108	
390-4103-6	PH03D	90	105	
390-4103-7	PH04A	52 S1-	30 S1-	
390-4103-8	PH04D	101	110	
390-4103-9	PH05A	88	99	
390-4103-10	PH05D	101	94	
390-4103-11	PH06A	101	95	
390-4103-12	PH06D	89	100	
390-4103-13	PH07A	80	88	
390-4103-14	PH07D	96	106	
390-4103-15	PH08A	87	98	
390-4103-16	PH08D	95	95	
CS 880-46507/2-A	Lab Control Sample	98	114	
CS 880-46509/2-A	Lab Control Sample	100	90	
_CS 880-46578/2-A	Lab Control Sample	103	115	
CS 880-46582/2-A	Lab Control Sample	99	105	
CSD 880-46507/3-A	Lab Control Sample Dup	114	125	
_CSD 880-46509/3-A	Lab Control Sample Dup	100	99	
_CSD 880-46578/3-A	Lab Control Sample Dup	123	136 S1+	
CSD 880-46582/3-A	Lab Control Sample Dup	98	107	
MB 880-46507/1-A	Method Blank	91	112	
MB 880-46509/1-A	Method Blank	100	94	
MB 880-46578/1-A	Method Blank	94	111	
MB 880-46582/1-A	Method Blank	97	105	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46421/5-A

Matrix: Solid

Analysis Batch: 46482

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46421

1

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/15/23 13:08	02/16/23 14:11	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/23 13:08	02/16/23 14:11	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/23 13:08	02/16/23 14:11	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/15/23 13:08	02/16/23 14:11	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/23 13:08	02/16/23 14:11	1	
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/15/23 13:08	02/16/23 14:11	1	

MB MB

MR MR

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02	2/15/23 13:08	02/16/23 14:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02	2/15/23 13:08	02/16/23 14:11	1

RL

Unit

Lab Sample ID: MB 880-46534/5-A

Matrix: Solid

Analyte

Analysis Batch: 46482

Client Sample ID: Method Blank

Analyzed

Prepared

Prep Type: Total/NA

Prep Batch: 46534

Dil Fac

Benzene <0.00200 U 0.00200 mg/Kg 02/16/23 14:15 02/17/23 01:47 Toluene <0.00200 U 0.00200 mg/Kg 02/16/23 14:15 02/17/23 01:47 Ethylbenzene <0.00200 U 0.00200 mg/Kg 02/16/23 14:15 02/17/23 01:47 0.00400 m-Xylene & p-Xylene <0.00400 U mg/Kg 02/16/23 14:15 02/17/23 01:47 <0.00200 U 0.00200 o-Xylene mg/Kg 02/16/23 14:15 02/17/23 01:47 Xylenes, Total <0.00400 U 0.00400 02/16/23 14:15 02/17/23 01:47 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/16/23 14:15	02/17/23 01:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/16/23 14:15	02/17/23 01:47	1

Lab Sample ID: LCS 880-46534/1-A

Matrix: Solid

Analysis Batch: 46482

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 46534

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1259		mg/Kg		126	70 - 130	
Toluene	0.100	0.1242		mg/Kg		124	70 - 130	
Ethylbenzene	0.100	0.1209		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	0.200	0.2489		mg/Kg		124	70 - 130	
o-Xylene	0.100	0.1205		mg/Kg		121	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-46534/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 46482

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

Prep Batch: 46534

LCSD LCSD RPD %Rec Result Qualifier Unit %Rec Limits RPD Limit mg/Kg 126 70 - 130 0

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0.1261

Spike

Added

0.100

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

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

Lab Sample ID: LCSD 880-46534/2-A **Matrix: Solid**

Analysis Batch: 46482

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 46534

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1238		mg/Kg		124	70 - 130	0	35
Ethylbenzene	0.100	0.1230		mg/Kg		123	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2540		mg/Kg		127	70 - 130	2	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-24844-A-1-A MS

Matrix: Solid

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

Analysis Batch: 46482 Prep Batch: 46534 Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Unit %Rec Limits

Analyte Benzene <0.00199 0.101 0.09597 95 70 - 130 mg/Kg <0.00199 U Toluene 0.101 0.08045 mg/Kg 79 70 - 130 Ethylbenzene <0.00199 UF1 0.101 0.06771 F1 mg/Kg 70 - 130 66 0.203 m-Xylene & p-Xylene 0.00509 F1 0.1422 F1 68 70 - 130 mg/Kg o-Xylene 0.00524 F1 0.101 0.07111 F1 mg/Kg 65 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 880-24844-A-1-B MSD

Matrix: Solid

Analysis Batch: 46482

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46534

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U	0.0996	0.09101		mg/Kg		91	70 - 130	5	35	
Toluene	< 0.00199	U	0.0996	0.07157		mg/Kg		72	70 - 130	12	35	
Ethylbenzene	< 0.00199	U F1	0.0996	0.05876	F1	mg/Kg		58	70 - 130	14	35	
m-Xylene & p-Xylene	0.00509	F1	0.199	0.1255	F1	mg/Kg		60	70 - 130	12	35	
o-Xylene	0.00524	F1	0.0996	0.06290	F1	mg/Kg		58	70 - 130	12	35	

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-46840/5-A

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46840

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	02/21/23 09:00	02/22/23 21:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/21/23 09:00	02/22/23 21:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/21/23 09:00	02/22/23 21:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/21/23 09:00	02/22/23 21:43	1

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Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB

SDG: 03D2024135

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

Lab Sample ID: MB 880-46840/5-A

Lab Sample ID: LCS 880-46840/1-A

Matrix: Solid

Analysis Batch: 46927

Prep Type: Total/NA Prep Batch: 46840

MB	MB	

Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg	02/21/23 09:00	02/22/23 21:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	02/21/23 09:00	02/22/23 21:43	1

мв мв

	1112 1112				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	02/21/23 09:00	02/22/23 21:43	1
1,4-Difluorobenzene (Surr)	81	70 - 130	02/21/23 09:00	02/22/23 21:43	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 46927

Prep Type: Total/NA

Prep Batch: 46840

ı		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.09996	-	mg/Kg		100	70 - 130	
	Toluene	0.100	0.1015		mg/Kg		102	70 - 130	
	Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	
ĺ	m-Xylene & p-Xylene	0.200	0.2434		mg/Kg		122	70 - 130	
	o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130	
ı									

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	126	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46840

Lab Sample ID: LCSD 880-46840/2-A Matrix: Solid

Analysis Batch: 46927

LCSD %Rec RPD
Qualifier Unit D %Rec Limits RPD Limit
mg/Kg 107 70 - 130 6 35
mg/Kg 101 70 - 130 1 35
mg/Kg 105 70 - 130 6 35
mg/Kg 111 70 - 130 9 35
mg/Kg 112 70 - 130 10 35

LCSD LCSD

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

Lab Sample ID: 890-4159-A-1-H MS

Matrix: Solid Analysis Batch: 46927 Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46840

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0673	F1	0.101	<0.0504	U F1	mg/Kg		-29	70 - 130	
Toluene	0.0608	F1 F2	0.101	3.060	F1	mg/Kg		2975	70 - 130	
Ethylbenzene	< 0.0497	U F1	0.101	3.110	F1	mg/Kg		3048	70 - 130	
m-Xylene & p-Xylene	<0.0994	U F1	0.202	6.756	F1	mg/Kg		3324	70 - 130	
o-Xvlene	<0.0497	IIF1	0.101	3 512	F1	ma/Ka		3461	70 130	

Client: Ensolum Project/Site: Wilder CTB

Job ID: 890-4103-1 SDG: 03D2024135

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

Lab Sample ID: 890-4159-A-1-H MS

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46840

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 140 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46840

Lab Sample ID: 890-4159-A-1-I MSD **Matrix: Solid**

Analysis Batch: 46927

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0673	F1	0.0996	<0.0498	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	0.0608	F1 F2	0.0996	<0.0498	U F1 F2	mg/Kg		-30	70 - 130	196	35
Ethylbenzene	< 0.0497	U F1	0.0996	3.057	F1	mg/Kg		3032	70 - 130	2	35
m-Xylene & p-Xylene	<0.0994	U F1	0.199	6.412	F1	mg/Kg		3192	70 - 130	5	35
o-Xylene	< 0.0497	U F1	0.0996	3.456	F1	mg/Kg		3448	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	
1,4-Difluorobenzene (Surr)	11	S1-	70 - 130	

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46865

Analysis Batch: 46927 MR MR

Lab Sample ID: MB 880-46865/5-A

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/21/23 14:29	02/22/23 10:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/21/23 14:29	02/22/23 10:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/21/23 14:29	02/22/23 10:57	1
	MB	МВ						
	IVID	IVID						

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 75 70 - 130 02/21/23 14:29 02/22/23 10:57 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 91 70 - 130 02/21/23 14:29 02/22/23 10:57

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

Lab Sample ID: MB 880-46507/1-A

Released to Imaging: 4/28/2023 12:49:26 PM

Matrix: Solid

Matrix: Solid

Analysis Batch: 46558

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

Prep Batch: 46507

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/16/23 09:40	02/17/23 08:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/16/23 09:40	02/17/23 08:54	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/16/23 09:40	02/17/23 08:54	1

Client: Ensolum Job ID: 890-4103-1 SDG: 03D2024135 Project/Site: Wilder CTB

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

Lab Sample ID: MB 880-46507/1-A

Matrix: Solid

Analysis Batch: 46558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46507

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/1	6/23 09:40	02/17/23 08:54	1
o-Terphenyl	112		70 - 130	02/1	6/23 09:40	02/17/23 08:54	1

Lab Sample ID: LCS 880-46507/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 46558

Prep Type: Total/NA

Prep Batch: 46507

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 860.8 86 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 994.1 mg/Kg 99 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-46507/3-A Client Sample ID: Lab Control Sample Dup

I COD I COD

Matrix: Solid

Analysis Batch: 46558

Prep Type: Total/NA

Prep Batch: 46507

-1		Spike	LUGD	LUGD				/onec		KFD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Gasoline Range Organics	1000	988.4		mg/Kg		99	70 - 130	14	20
	(GRO)-C6-C10									
	Diesel Range Organics (Over	1000	1078		mg/Kg		108	70 - 130	8	20
	C10-C28)									

Cnika

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	114	70 _ 130
o-Terphenyl	125	70 - 130

Lab Sample ID: 890-4100-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 46558

Prep Type: Total/NA

Prep Batch: 46507

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	1000	1059		mg/Kg		101	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	1000	1114		mg/Kg		110	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-4100-A-1-E MSD

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46507

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	1000	1047		mg/Kg		100	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	1000	1079		mg/Kg		106	70 - 130	3	20
040,000)											

C10-C28)

Matrix: Solid

Analysis Batch: 46558

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 109 o-Terphenyl 107 70 - 130

Lab Sample ID: MB 880-46509/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 46560

мв мв

Prep Type: Total/NA Prep Batch: 46509

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 02/16/23 09:47 02/17/23 08:54 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/16/23 09:47 02/17/23 08:54 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 02/16/23 09:47 02/17/23 08:54

MB MB

Surrogate	%Recovery Qualit	fier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100	70 - 130	02/16/23 09:47	02/17/23 08:54	1
o-Terphenyl	94	70 - 130	02/16/23 09:47	02/17/23 08:54	1

Lab Sample ID: LCS 880-46509/2-A

Matrix: Solid

Analysis Batch: 46560

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

Prep Batch: 46509

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	825.8		mg/Kg		83	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	912.4		mg/Kg		91	70 - 130	
C10-C28)								

LCS LCS

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

Lab Sample ID: LCSD 880-46509/3-A

Matrix: Solid

Analysis Batch: 46560

Prep Type: Total/NA

Prep Batch: 46509

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1126	*1	mg/Kg		113	70 - 130	31	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1011		mg/Kg		101	70 - 130	10	20
C10-C28)									

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

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

Lab Sample ID: LCSD 880-46509/3-A

Matrix: Solid

Analysis Batch: 46560

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46509

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 100 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: 890-4099-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 46560

Prep Type: Total/NA

Prep Batch: 46509

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U *1 1000 1085 105 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 1000 886.5 mg/Kg 87 70 - 130C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-4099-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 46560

Prep Type: Total/NA

Prep Batch: 46509

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics <49.8 U *1 1000 1111 mg/Kg 107 70 - 130 2 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over <49.8 U 863.0 mg/Kg 85 70 - 130 3 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Temhenyl	90		70 130

Lab Sample ID: MB 880-46578/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 46558

Prep Type: Total/NA

Prep Batch: 46578

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/17/23 09:00	02/17/23 20:20	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/17/23 09:00	02/17/23 20:20	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/23 09:00	02/17/23 20:20	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	02/17/23 09:00	02/17/23 20:20	1
o-Terphenyl	111		70 - 130	02/17/23 09:00	02/17/23 20:20	1

Client: Ensolum Job ID: 890-4103-1
Project/Site: Wilder CTB SDG: 03D2024135

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

Lab Sample ID: LCS 880-46578/2-A

Matrix: Solid

Analysis Batch: 46558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46578

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	820.1		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	884.2		mg/Kg		88	70 - 130	
C10-C28)								

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 103
 70 - 130

 o-Terphenyl
 115
 70 - 130

Lab Sample ID: LCSD 880-46578/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 46558 Prep Batch: 46578

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 979.3 98 Gasoline Range Organics mg/Kg 70 - 130 18 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1072 mg/Kg 107 70 - 130 19 20 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 123
 70 - 130

 o-Terphenyl
 136
 \$1+
 70 - 130

Lab Sample ID: 880-24755-A-1-C MS

Matrix: Solid

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

Analysis Batch: 46558

Prep Batch: 46578

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1021		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1042		mg/Kg		100	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 105
 70 - 130

 o-Terphenyl
 101
 70 - 130

Lab Sample ID: 880-24755-A-1-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
An	alyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	soline Range Organics RO)-C6-C10	<50.0	U	1000	1040		mg/Kg		102	70 - 130	2	20	
	esel Range Organics (Over 0-C28)	<50.0	U	1000	1084		mg/Kg		104	70 - 130	4	20	
		MSD	MSD										

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 110
 70 - 130

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

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

Lab Sample ID: 880-24755-A-1-D MSD

Matrix: Solid

Analysis Batch: 46558

Analysis Batch: 46615

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46578

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 105 70 - 130

Lab Sample ID: MB 880-46582/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA

Prep Batch: 46582

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 02/17/23 09:56 02/18/23 08:39 (GRO)-C6-C10 50.0 Diesel Range Organics (Over <50.0 U mg/Kg 02/17/23 09:56 02/18/23 08:39 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 02/17/23 09:56 02/18/23 08:39

мв мв

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 97 70 - 130 02/17/23 09:56 02/18/23 08:39 1-Chlorooctane o-Terphenyl 105 70 - 130 02/17/23 09:56 02/18/23 08:39

Lab Sample ID: LCS 880-46582/2-A Client Sample ID: Lab Control Sample

LCS LCS

Matrix: Solid

Analysis Batch: 46615

Prep Type: Total/NA

Prep Batch: 46582

	•							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	824.1		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	968.2		mg/Kg		97	70 - 130	
C10-C28)								

Spike

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-46582/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

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Analysis Batch: 46615

Prep Type: Total/NA

Prep Batch: 46582

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	799.6		mg/Kg		80	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1012		mg/Kg		101	70 - 130	4	20	
C10 C28)										

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
1-Chlorooctane	98	70 - 130
o-Terphenyl	107	70 - 130

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

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

61.4

Lab Sample ID: 880-24875-A-1-A MS

Matrix: Solid									Prep	Type: Total/NA
Analysis Batch: 46615									Pre	Batch: 46582
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	1000	934.5		mg/Kg		93	70 - 130	
(GRO)-C6-C10										

952.5

mg/Kg

1000

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 103 o-Terphenyl 89 70 - 130

Lab Sample ID: 880-24875-A-1-B MSD

Matrix: Solid

Diesel Range Organics (Over

Analysis Batch: 46615

Client Sample ID: Matrix Spike Duplicate

70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46582

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U 1000 892.6 70 - 130 5 Gasoline Range Organics mg/Kg 89 (GRO)-C6-C10 Diesel Range Organics (Over 61.4 1000 905.1 mg/Kg 84 70 - 130 5 20 C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	84		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46459/1-A

Matrix: Solid

Analysis Batch: 46551

MB MB

Analyte Result Qualifier RL Unit Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/16/23 21:05

Lab Sample ID: LCS 880-46459/2-A

Matrix: Solid

Analysis Batch: 46551

	Spike	LCS	LCS			%Rec
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Chloride	250	238.5	ma/Ka		95	90 - 110

Lab Sample ID: LCSD 880-46459/3-A

Matrix: Solid

Analysis Batch: 46551

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	261.8		mg/Kg	_	105	90 - 110	9	20

Job ID: 890-4103-1 SDG: 03D2024135

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4094-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Client: Ensolum Project/Site: Wilder CTB

Analysis Batch: 46551

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	11.1		251	262.5		mg/Kg		100	90 - 110	

Lab Sample ID: 890-4094-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46551

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	11.1		251	267.7		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 890-4101-A-25-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46551

%Rec Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 731 1240 2016 mg/Kg 103 90 - 110

Lab Sample ID: 890-4101-A-25-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46551

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	731		1240	2095		mg/Kg		110	90 - 110	4	20

Lab Sample ID: MB 880-46463/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46815

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/20/23 23:42	1

Lab Sample ID: LCS 880-46463/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 46815

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	238.1		mg/Kg		95	90 - 110	

Lab Sample ID: LCSD 880-46463/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46815

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	 250	244.3		mg/Kg		98	90 - 110	3	20	

Lab Sample ID: 890-4103-1 MS Client Sample ID: PH01A

Matrix: Solid

Analysis Batch: 46815

7 maryolo Batom 10010										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2770	F1	1240	4141	F1	mg/Kg		111	90 - 110	

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4103-1 MSD Client Sample ID: PH01A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46815

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2770	F1	1240	4141	F1	mg/Kg		111	90 - 110	0	20

Client: Ensolum
Project/Site: Wilder CTB
Job ID: 890-4103-1
SDG: 03D2024135

GC VOA

Prep Batch: 46421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46421/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8021B	46534
890-4103-2	PH01D	Total/NA	Solid	8021B	46534
890-4103-3	PH02A	Total/NA	Solid	8021B	46534
890-4103-4	PH02D	Total/NA	Solid	8021B	46534
890-4103-5	PH03A	Total/NA	Solid	8021B	46534
890-4103-6	PH03D	Total/NA	Solid	8021B	46534
890-4103-7	PH04A	Total/NA	Solid	8021B	46534
890-4103-8	PH04D	Total/NA	Solid	8021B	46534
890-4103-9	PH05A	Total/NA	Solid	8021B	46534
890-4103-10	PH05D	Total/NA	Solid	8021B	46534
890-4103-11	PH06A	Total/NA	Solid	8021B	46534
890-4103-12	PH06D	Total/NA	Solid	8021B	46534
890-4103-13	PH07A	Total/NA	Solid	8021B	46534
890-4103-14	PH07D	Total/NA	Solid	8021B	46534
890-4103-15	PH08A	Total/NA	Solid	8021B	46534
890-4103-16	PH08D	Total/NA	Solid	8021B	46534
MB 880-46421/5-A	Method Blank	Total/NA	Solid	8021B	46421
MB 880-46534/5-A	Method Blank	Total/NA	Solid	8021B	46534
LCS 880-46534/1-A	Lab Control Sample	Total/NA	Solid	8021B	46534
LCSD 880-46534/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46534
880-24844-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	46534
880-24844-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46534

Prep Batch: 46534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	5035	
890-4103-2	PH01D	Total/NA	Solid	5035	
390-4103-3	PH02A	Total/NA	Solid	5035	
390-4103-4	PH02D	Total/NA	Solid	5035	
90-4103-5	PH03A	Total/NA	Solid	5035	
390-4103-6	PH03D	Total/NA	Solid	5035	
390-4103-7	PH04A	Total/NA	Solid	5035	
390-4103-8	PH04D	Total/NA	Solid	5035	
390-4103-9	PH05A	Total/NA	Solid	5035	
90-4103-10	PH05D	Total/NA	Solid	5035	
390-4103-11	PH06A	Total/NA	Solid	5035	
90-4103-12	PH06D	Total/NA	Solid	5035	
90-4103-13	PH07A	Total/NA	Solid	5035	
90-4103-14	PH07D	Total/NA	Solid	5035	
90-4103-15	PH08A	Total/NA	Solid	5035	
90-4103-16	PH08D	Total/NA	Solid	5035	
/IB 880-46534/5-A	Method Blank	Total/NA	Solid	5035	
CS 880-46534/1-A	Lab Control Sample	Total/NA	Solid	5035	
.CSD 880-46534/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
80-24844-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24844-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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Client: EnsolumJob ID: 890-4103-1Project/Site: Wilder CTBSDG: 03D2024135

GC VOA

Analysis Batch: 46734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	Total BTEX	
890-4103-2	PH01D	Total/NA	Solid	Total BTEX	
890-4103-3	PH02A	Total/NA	Solid	Total BTEX	
890-4103-4	PH02D	Total/NA	Solid	Total BTEX	
890-4103-5	PH03A	Total/NA	Solid	Total BTEX	
890-4103-6	PH03D	Total/NA	Solid	Total BTEX	
890-4103-7	PH04A	Total/NA	Solid	Total BTEX	
890-4103-8	PH04D	Total/NA	Solid	Total BTEX	
890-4103-9	PH05A	Total/NA	Solid	Total BTEX	
890-4103-10	PH05D	Total/NA	Solid	Total BTEX	
890-4103-11	PH06A	Total/NA	Solid	Total BTEX	
890-4103-12	PH06D	Total/NA	Solid	Total BTEX	
890-4103-13	PH07A	Total/NA	Solid	Total BTEX	
890-4103-14	PH07D	Total/NA	Solid	Total BTEX	
890-4103-15	PH08A	Total/NA	Solid	Total BTEX	
890-4103-16	PH08D	Total/NA	Solid	Total BTEX	

Prep Batch: 46840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4103-7	PH04A	Total/NA	Solid	5035	
MB 880-46840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4159-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-4159-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 46865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46865/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-7	PH04A	Total/NA	Solid	8021B	46840
MB 880-46840/5-A	Method Blank	Total/NA	Solid	8021B	46840
MB 880-46865/5-A	Method Blank	Total/NA	Solid	8021B	46865
LCS 880-46840/1-A	Lab Control Sample	Total/NA	Solid	8021B	46840
LCSD 880-46840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46840
890-4159-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	46840
890-4159-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46840

GC Semi VOA

Prep Batch: 46507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8015NM Prep	
890-4103-2	PH01D	Total/NA	Solid	8015NM Prep	
890-4103-3	PH02A	Total/NA	Solid	8015NM Prep	
890-4103-4	PH02D	Total/NA	Solid	8015NM Prep	
890-4103-5	PH03A	Total/NA	Solid	8015NM Prep	
890-4103-6	PH03D	Total/NA	Solid	8015NM Prep	
890-4103-7	PH04A	Total/NA	Solid	8015NM Prep	

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Client: Ensolum
Project/Site: Wilder CTB
Job ID: 890-4103-1
SDG: 03D2024135

GC Semi VOA (Continued)

Prep Batch: 46507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-8	PH04D	Total/NA	Solid	8015NM Prep	
890-4103-9	PH05A	Total/NA	Solid	8015NM Prep	
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4100-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4100-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 46509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-10	PH05D	Total/NA	Solid	8015NM Prep	
890-4103-11	PH06A	Total/NA	Solid	8015NM Prep	
MB 880-46509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4099-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4099-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8015B NM	46507
890-4103-2	PH01D	Total/NA	Solid	8015B NM	46507
890-4103-3	PH02A	Total/NA	Solid	8015B NM	46507
890-4103-4	PH02D	Total/NA	Solid	8015B NM	46507
890-4103-5	PH03A	Total/NA	Solid	8015B NM	46507
890-4103-6	PH03D	Total/NA	Solid	8015B NM	46507
890-4103-7	PH04A	Total/NA	Solid	8015B NM	46507
890-4103-8	PH04D	Total/NA	Solid	8015B NM	46507
890-4103-9	PH05A	Total/NA	Solid	8015B NM	46507
890-4103-12	PH06D	Total/NA	Solid	8015B NM	46578
890-4103-13	PH07A	Total/NA	Solid	8015B NM	46578
890-4103-14	PH07D	Total/NA	Solid	8015B NM	46578
890-4103-15	PH08A	Total/NA	Solid	8015B NM	46578
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015B NM	46507
MB 880-46578/1-A	Method Blank	Total/NA	Solid	8015B NM	46578
LCS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46507
LCS 880-46578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46578
LCSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46507
LCSD 880-46578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46578
880-24755-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	46578
880-24755-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46578
890-4100-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	46507
890-4100-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46507

Analysis Batch: 46560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-10	PH05D	Total/NA	Solid	8015B NM	46509
890-4103-11	PH06A	Total/NA	Solid	8015B NM	46509
MB 880-46509/1-A	Method Blank	Total/NA	Solid	8015B NM	46509
LCS 880-46509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46509
LCSD 880-46509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46509

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Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

GC Semi VOA (Continued)

Analysis Batch: 46560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4099-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	46509
890-4099-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46509

Prep Batch: 46578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-12	PH06D	Total/NA	Solid	8015NM Prep	
890-4103-13	PH07A	Total/NA	Solid	8015NM Prep	
890-4103-14	PH07D	Total/NA	Solid	8015NM Prep	
890-4103-15	PH08A	Total/NA	Solid	8015NM Prep	
MB 880-46578/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24755-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24755-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 46582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-16	PH08D	Total/NA	Solid	8015NM Prep	
MB 880-46582/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46582/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24875-A-1-A MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24875-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-16	PH08D	Total/NA	Solid	8015B NM	46582
MB 880-46582/1-A	Method Blank	Total/NA	Solid	8015B NM	46582
LCS 880-46582/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46582
LCSD 880-46582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46582
880-24875-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B NM	46582
880-24875-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46582

Analysis Batch: 46664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8015 NM	
890-4103-2	PH01D	Total/NA	Solid	8015 NM	
890-4103-3	PH02A	Total/NA	Solid	8015 NM	
890-4103-4	PH02D	Total/NA	Solid	8015 NM	
890-4103-5	PH03A	Total/NA	Solid	8015 NM	
890-4103-6	PH03D	Total/NA	Solid	8015 NM	
890-4103-7	PH04A	Total/NA	Solid	8015 NM	
890-4103-8	PH04D	Total/NA	Solid	8015 NM	
890-4103-9	PH05A	Total/NA	Solid	8015 NM	
890-4103-10	PH05D	Total/NA	Solid	8015 NM	
890-4103-11	PH06A	Total/NA	Solid	8015 NM	
890-4103-12	PH06D	Total/NA	Solid	8015 NM	
890-4103-13	PH07A	Total/NA	Solid	8015 NM	
890-4103-14	PH07D	Total/NA	Solid	8015 NM	
890-4103-15	PH08A	Total/NA	Solid	8015 NM	
890-4103-16	PH08D	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

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Leach Batch: 46459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-11	PH06A	Soluble	Solid	DI Leach	
890-4103-12	PH06D	Soluble	Solid	DI Leach	
890-4103-13	PH07A	Soluble	Solid	DI Leach	
890-4103-14	PH07D	Soluble	Solid	DI Leach	
890-4103-15	PH08A	Soluble	Solid	DI Leach	
890-4103-16	PH08D	Soluble	Solid	DI Leach	
MB 880-46459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4101-A-25-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4101-A-25-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 46463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Soluble	Solid	DI Leach	_
890-4103-2	PH01D	Soluble	Solid	DI Leach	
890-4103-3	PH02A	Soluble	Solid	DI Leach	
890-4103-4	PH02D	Soluble	Solid	DI Leach	
890-4103-5	PH03A	Soluble	Solid	DI Leach	
890-4103-6	PH03D	Soluble	Solid	DI Leach	
890-4103-7	PH04A	Soluble	Solid	DI Leach	
890-4103-8	PH04D	Soluble	Solid	DI Leach	
890-4103-9	PH05A	Soluble	Solid	DI Leach	
890-4103-10	PH05D	Soluble	Solid	DI Leach	
MB 880-46463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4103-1 MS	PH01A	Soluble	Solid	DI Leach	
890-4103-1 MSD	PH01A	Soluble	Solid	DI Leach	

Analysis Batch: 46551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-11	PH06A	Soluble	Solid	300.0	46459
890-4103-12	PH06D	Soluble	Solid	300.0	46459
890-4103-13	PH07A	Soluble	Solid	300.0	46459
890-4103-14	PH07D	Soluble	Solid	300.0	46459
890-4103-15	PH08A	Soluble	Solid	300.0	46459
890-4103-16	PH08D	Soluble	Solid	300.0	46459
MB 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459
890-4101-A-25-B MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4101-A-25-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459

Analysis Batch: 46815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Soluble	Solid	300.0	46463

Client: Ensolum
Project/Site: Wilder CTB
Job ID: 890-4103-1
SDG: 03D2024135

HPLC/IC (Continued)

Analysis Batch: 46815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-2	PH01D	Soluble	Solid	300.0	46463
890-4103-3	PH02A	Soluble	Solid	300.0	46463
890-4103-4	PH02D	Soluble	Solid	300.0	46463
890-4103-5	PH03A	Soluble	Solid	300.0	46463
890-4103-6	PH03D	Soluble	Solid	300.0	46463
890-4103-7	PH04A	Soluble	Solid	300.0	46463
890-4103-8	PH04D	Soluble	Solid	300.0	46463
890-4103-9	PH05A	Soluble	Solid	300.0	46463
890-4103-10	PH05D	Soluble	Solid	300.0	46463
MB 880-46463/1-A	Method Blank	Soluble	Solid	300.0	46463
LCS 880-46463/2-A	Lab Control Sample	Soluble	Solid	300.0	46463
LCSD 880-46463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46463
890-4103-1 MS	PH01A	Soluble	Solid	300.0	46463
890-4103-1 MSD	PH01A	Soluble	Solid	300.0	46463

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4.6

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Job ID: 890-4103-1 Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH01A Lab Sample ID: 890-4103-1

Matrix: Solid

Date Collected: 02/13/23 09:40 Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 03:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 14:02	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 01:27	CH	EET MID

Client Sample ID: PH01D Lab Sample ID: 890-4103-2

Date Collected: 02/13/23 09:55 **Matrix: Solid** Date Received: 02/14/23 08:43

	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	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 03:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 14:24	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		10			46815	02/21/23 01:45	CH	EET MID

Client Sample ID: PH02A Lab Sample ID: 890-4103-3 Date Collected: 02/13/23 10:15 **Matrix: Solid**

Dil Batch Batch 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 46534 02/16/23 14:15 EL EET MID Total/NA Analysis 8021B 5 mL 5 mL 46482 02/17/23 04:18 ΑJ **EET MID** Total/NA Analysis Total BTEX 46734 02/20/23 13:54 A.I EET MID 1 Total/NA Analysis 8015 NM 46664 02/20/23 15:10 SM **EET MID** 10.00 g Total/NA Prep 8015NM Prep 10 mL 46507 02/16/23 09:41 SM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 46558 02/17/23 14:47 EET MID AJ

Client Sample ID: PH02D Lab Sample ID: 890-4103-4

5

5 g

50 mL

46463

46815

02/15/23 15:40

02/21/23 01:51

KS

СН

Date Collected: 02/13/23 10:30 **Matrix: Solid** Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 04:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID

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EET MID EET MID

Leach

Analysis

DI Leach

300.0

Date Received: 02/14/23 08:43

Soluble

Soluble

Client: Ensolum Job ID: 890-4103-1
Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH02D

Date Collected: 02/13/23 10:30 Date Received: 02/14/23 08:43 Lab Sample ID: 890-4103-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 15:09	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:10	СН	EET MID

Client Sample ID: PH03A

Date Collected: 02/13/23 10:45

Lab Sample ID: 890-4103-5

Matrix: Solid

Date Collected: 02/13/23 10:45 Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 04:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 15:31	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:16	CH	EET MID

Client Sample ID: PH03D

Date Collected: 02/13/23 11:00

Lab Sample ID: 890-4103-6

Matrix: Solid

Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 05:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 16:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		20			46815	02/21/23 02:22	CH	EET MID

Client Sample ID: PH04A

Lab Sample ID: 890-4103-7

Date Collected: 02/13/23 12:20

Matrix: Solid

Date Received: 02/14/23 08:43

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 07:10	AJ	EET MID
Total/NA	Prep	5035			5.00 g	5 mL	46840	02/21/23 11:07	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	46927	02/23/23 05:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID

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Client: Ensolum Job ID: 890-4103-1 Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH04A

Lab Sample ID: 890-4103-7 Date Collected: 02/13/23 12:20 Date Received: 02/14/23 08:43

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015NM Prep 46507 Prep 10.04 g 10 mL 02/16/23 09:41 SM **EET MID** Total/NA 8015B NM 1 uL Analysis 1 1 uL 46558 02/17/23 16:44 ΑJ EET MID Soluble Leach DI Leach 5.04 g 50 mL 46463 02/15/23 15:40 KS EET MID Soluble 300.0 5 46815 02/21/23 02:28 Analysis СН EET MID

Client Sample ID: PH04D Lab Sample ID: 890-4103-8

Date Collected: 02/13/23 12:35 Matrix: Solid

Date Received: 02/14/23 08:43

	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	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 07:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 17:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		10			46815	02/21/23 02:35	CH	EET MID

Client Sample ID: PH05A Lab Sample ID: 890-4103-9

Date Collected: 02/13/23 12:40 **Matrix: Solid** Date Received: 02/14/23 08:43

	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	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 07:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 17:27	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:41	CH	EET MID

Client Sample ID: PH05D Lab Sample ID: 890-4103-10

Date Collected: 02/13/23 12:55 Matrix: Solid Date Received: 02/14/23 08:43

	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	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 08:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46509	02/16/23 09:47	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 19:15	SM	EET MID

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Job ID: 890-4103-1 Client: Ensolum Project/Site: Wilder CTB SDG: 03D2024135

Client Sample ID: PH05D

Date Received: 02/14/23 08:43

DI Leach

300.0

Leach

Analysis

Soluble

Soluble

Lab Sample ID: 890-4103-10 Date Collected: 02/13/23 12:55

Matrix: Solid Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		10			46815	02/21/23 02:47	CH	EET MID

Client Sample ID: PH06A Lab Sample ID: 890-4103-11

Date Collected: 02/13/23 13:00 **Matrix: Solid**

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.01 g 46534 02/16/23 14:15 EL EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 02/17/23 08:32 Analysis 1 46482 AJ **EET MID** Total/NA Total BTEX 46734 02/20/23 13:54 Analysis AJ **EET MID** 1 Total/NA Analysis 8015 NM 46664 02/19/23 12:20 SM **EET MID** 46509 EET MID Total/NA Prep 8015NM Prep 10.04 g 10 mL 02/16/23 09:47 SM 8015B NM Total/NA Analysis 1 uL 1 uL 46560 02/17/23 19:37 SM **EET MID**

Client Sample ID: PH06D Lab Sample ID: 890-4103-12

4.98 g

50 mL

46459

46551

02/15/23 15:35

02/16/23 23:05

KS

СН

Date Collected: 02/13/23 13:15 **Matrix: Solid** Date Received: 02/14/23 08:43

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			4.97 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 08:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 04:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 23:10	CH	EET MID

Client Sample ID: PH07A Lab Sample ID: 890-4103-13

Date Collected: 02/13/23 13:30 Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 09:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 04:45	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 23:14	CH	EET MID

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EET MID

EET MID

Matrix: Solid

Date Collected: 02/13/23 13:45

Date Received: 02/14/23 08:43

Client: Ensolum

Job ID: 890-4103-1 SDG: 03D2024135

Project/Site: Wilder CTB **Client Sample ID: PH07D** Lab Sample ID: 890-4103-14

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.96 g 5 mL 46534 02/16/23 14:15 EL **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 46482 02/17/23 09:33 AJ **EET MID** Total/NA Analysis Total BTEX 46734 02/20/23 13:54 ΑJ **EET MID** Total/NA 8015 NM 46664 **EET MID** Analysis 1 02/20/23 15:10 SM Total/NA 8015NM Prep 46578 02/17/23 09:00 SM EET MID Prep 10.00 g 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 46558 02/18/23 05:07 ΑJ **EET MID** Soluble DI Leach 5.02 g 50 mL 46459 02/15/23 15:35 KS Leach **EET MID** Soluble Analysis 300.0 46551 02/16/23 23:19 СН **EET MID**

Client Sample ID: PH08A Lab Sample ID: 890-4103-15

Date Collected: 02/13/23 14:00 **Matrix: Solid** Date Received: 02/14/23 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 09:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 05:30	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		5			46551	02/16/23 23:24	CH	EET MID

Lab Sample ID: 890-4103-16 **Client Sample ID: PH08D** Date Collected: 02/13/23 14:15 **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	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 10:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46582	02/17/23 09:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46615	02/18/23 18:08	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		10			46551	02/16/23 23:29	CH	EET MID

Laboratory References:

Date Received: 02/14/23 08:43

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB
Job ID: 890-4103-1
SDG: 03D2024135

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for
the agency does not of		,	ieu sy ale gerelling adalemy.	ay molade analytes for
the agency does not of Analysis Method		Matrix	Analyte	ay molade analytes for
9 ,	fer certification.	•	, , ,	

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Method Summary

Client: Ensolum Job ID: 890-4103-1
Project/Site: Wilder CTB SDG: 03D2024135

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: Wilder CTB

Job ID: 890-4103-1 SDG: 03D2024135

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4103-1	PH01A	Solid	02/13/23 09:40	02/14/23 08:43	1
890-4103-2	PH01D	Solid	02/13/23 09:55	02/14/23 08:43	4
890-4103-3	PH02A	Solid	02/13/23 10:15	02/14/23 08:43	1
890-4103-4	PH02D	Solid	02/13/23 10:30	02/14/23 08:43	4
890-4103-5	PH03A	Solid	02/13/23 10:45	02/14/23 08:43	1
890-4103-6	PH03D	Solid	02/13/23 11:00	02/14/23 08:43	4
890-4103-7	PH04A	Solid	02/13/23 12:20	02/14/23 08:43	1
890-4103-8	PH04D	Solid	02/13/23 12:35	02/14/23 08:43	4
890-4103-9	PH05A	Solid	02/13/23 12:40	02/14/23 08:43	1
890-4103-10	PH05D	Solid	02/13/23 12:55	02/14/23 08:43	4
890-4103-11	PH06A	Solid	02/13/23 13:00	02/14/23 08:43	1
890-4103-12	PH06D	Solid	02/13/23 13:15	02/14/23 08:43	4
890-4103-13	PH07A	Solid	02/13/23 13:30	02/14/23 08:43	1
890-4103-14	PH07D	Solid	02/13/23 13:45	02/14/23 08:43	4
890-4103-15	PH08A	Solid	02/13/23 14:00	02/14/23 08:43	1
890-4103-16	PH08D	Solid	02/13/23 14:15	02/14/23 08:43	4

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eurofins

Xenco

Environment Testing

Phone:

817-683-2503

Email: kje Turn Around

Midland, TX 79701

Address: City, State ZIP:

601 N Marienfeld St Suite 400

C⊈ Ad Co Bii

Company Name: Project Manager:

Ensolum, LLC Kalei Jennings

Sampler's Name: Project Location: Project Number: Project Name:

1.501-181-150 Julianna Falcomata

> Due Date: Routine

> > Rush

Code

ANALYSIS REQUEST

Cool: Cool

None: NO

DI Water: H₂O MeOH: Me

Preservative Codes

H₂S0₄: H₂

HNO₃: HN NaOH: Na

TAT starts the day received by the lab, if received by 4:30pm

Chain of Custody

Houston, T)	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:
EL Paso, TX	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	
Hobbs, NM (Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	- 0
		www.xenco.com Page of C
to: (if different)	Kalei Jennings	Work Order Comments
npany Name:	Ensolum, LLC	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
dress:	601 N Marienfeld St Suite 400	State of Project:
/, State ZIP:	Midland, TX 79701	Reporting: Level II Level III PST/UST TRRP Level IV
nnings@ensolun	nnings@ensolum.com, jfalcomata@ensolum.com	Deliverables: EDD ADaPT Other:

	Rewised Date: 08/25/2020 Rev. 2020.2			ō			-				6
				4					-(3 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
				H36	3	24.93	0)		or Civil		CONTROLL OF THE CONTROLL OF THE CONTROL OF THE CONT
	: (Signature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Reli	Date/Time	Date		Received by: (Signature)	Received	(Signature)	Relinquished by: (Sign
	r negotiated.	Ich losses are due to circumstances beyond the control These terms will be enforced unless previously negotiated		nses incurred t ofins Xenco, bu	es or expe	or any loss	responsibility f \$5 for each sar	shall not assume any oject and a charge of	t of samples and applied to each p	liable only for the cos arge of \$85.00 will be	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 su 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.
_	nditions	standard terms and con-	Nation Standard and adjustification of a major constitutes availed our base order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	ns Xenco, its at	v to Eurofi	ont compar	order from cli	hites a valid niirchasc	f samples const	t and relinquishment	Notice Standing of this document
	Hg: 1631 / 245.1 / 7470 / 7471		Co Cu Pb Mn Mo Ni Se Ag TI U	Be Cd Cr (As Ba E	A Sb	010: 8RCR	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb	ed	al(s) to be analyz	Circle Method(s) and Metal(s) to be analyzed
	Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	Mo Ni K Se Ag	Cr Co Cu	B Cd Ca	s Ba Be	Al Sb As	Texas 11 /	8RCRA 13PPM	8R	200.8 / 6020:	Total 200.7 / 6010
							141	755 9'	*	4	DHOSD
								190 7			7487
								1235 9"			ZHO4 D
								1220 7			PHOHE
								100 4			1405D
								1045 7			DHINZA
								1080 4'			DH M D
								1015 17			0H07A
	NHF/3005-5671							955 4	1		DH01D
	10000						2	t 0,46	188-10	S	PHOTA
	Sample Comments			BTEX (TPH (8	Cont of	Grab/ Comp	Time Depth	Date Sampled	on Matrix	Sample Identification
	NaOH+Ascorbic Acid: SAPC	_		802	015)	RIDE	N.	nperature: 0	Corrected Temperature:		Total Containers:
	Zn Acetate+NaOH: Zn			1		S (E	0	Reading: / -	N/A Temperature Reading:	Yes No NIA	Sample Custody Seals:
	Na ₂ S ₂ O ₃ : NaSO ₃	stody	890-4103 Chain of Custody						Correction Factor	Yes No MA	Cooler Custody Seals:
	NaHSO ₄ : NABIS							10: The OOH	Thermometer ID:	(Yes) No	Samples Received Intact:
	H ₃ PO ₄ : HP					nete	8	Wet Ice: (Yes	CYAS NO	Temp Blank:	SAMPLE RECEIPT
	1204: 12					11.5	4.00011	ille lab, il leceived b			PO#

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

Total

200.7 / 6010

200.8 / 6020:

8RCRA

13PPM Texas 11 Al

Зb

Ąs Ba

Ве Be

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Co Cu Fe Pb

Mg Mn Mo Ni

K Se

Ag SiO₂ Na Sr

TI Sn U V Zn

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1631 / 245.1 / 7470 / 7471

TCLP / SPLP 6010: 8RCRA

Sb As Ba

Cd Cr Co Cd Ca Cr

Cu Pb Mn Mo Ni Se Ag

eurofins

Xenco

Environment Testing

Phone:

817-683-2503

Email: kjennings@ensolum

City, State ZIP:

Company Name: Bill to: (if different)

Turn Around

Rush

Code

ANALYSIS REQUEST

HCL: HC

NaOH: Na HNO3: HN MeOH: Me DI Water: H₂O

None: NO

Preservative Codes

Cool: Coo

Midland, TX 79701

601 N Marienfeld St Suite 400

City, State ZIP:

ddress:

Company Name: Project Manager:

Ensolum, LLC

Kalei Jennings

SAMPLE RECEIPT

Temp Blank: Yes No

Yes No

Wet Ice:

Yes

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Parameters

Cooler Custody Seals: Samples Received Intact:

Yes Yes

No N_O

NA NA

Correction Factor Temperature Readings Corrected Temperature

Thermometer 10:

otal Containers: ample Custody Seals:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth

Grab/

TPH (8015)

BTEX (8021

CHLORIDES (EPA: 300.0)

Comp

Cont * 0

1.50

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Sampler's Name: Project Location: Project Number: Project Name:

Julianna Falcomata

Due Date: Routine

TAT starts the day received by the lab, if received by 4:30pm

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Chain of Custody

Midland, TX (4 EL Paso, TX Hobbs, NM (Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300

32) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:
(915) 585-3443, Lubbock, TX (806) 794-1296	
575) 392-7550, Carlsbad, NM (575) 988-3199	9 9
	www.xenco.com Page L of L
Kalei Jennings	Work Order Comments
Ensolum, LLC	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
601 N Marienfeld St Suite 400	State of Project:
Midland, TX 79701	Reporting: Level III
com ifalcomata@ensolum.com	Deliverables: EDD

Relinquished thy: (Signature) Rece	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
2 8/1	3	2-1425843	2		
The state of the s					

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS H3PO4: HP

Sample Comments

NAPP250034327

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4103-1

SDG Number: 03D2024135

Login Number: 4103 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Is the Field Sampler's name present on COC?

Sample containers have legible labels.

Containers are not broken or leaking.

Sample bottles are completely filled.

Sample Preservation Verified.

Sample collection date/times are provided.

Appropriate sample containers are used.

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

Samples are received within Holding Time (excluding tests with immediate

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4103-1

SDG Number: 03D2024135

True

True

True

True

True

True

True

True

N/A

True

N/A

List Source: Eurofins Midland List Creation: 02/15/23 12:16 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4103

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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

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

HTs)

Released to Imaging: 4/28/2023 12:49:26 PM



APPENDIX E

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2300343271
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source							
Latitude	32.019	9	214D 02 : 1		Longitude	103.6900	
			(NAD 83 in de	cimal de	grees to 5 decimal pla	ces)	
Site Name		Wilder CTB			Site Type	Tank Battery	
Date Release	Discovered	December 2	26, 2022		API# (if applicable	2)	
Unit Letter	Section	Township	Range		County		
Α	29	26S	32E		Lea		
Surface Owner: State Federal Private (Name:)							

Nature and Volume of Release

Crude Oil	(s) Released (Select all that apply and attach calculations or specific Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 372	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a left open valve.

The release was on and off the pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be made at the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Received by OCD: 3/24/2023/1:23:05 PM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Was this a major			
release as defined by 19.15.29.7(A) NMAC?	Release was greater than 25 barrels.		
19.13.29.7(A) NMAC:			
■ Yes □ No			
		whom? When and by what means (phone, email, etc)?	
	on was given by Charles Beau	ivais on December 27, 2022 at 12:49 PM to ocd.enviro	
@state.nm.us.			
	Initial	Response	
The responsible p	party must undertake the following actions immed	liately unless they could create a safety hazard that would result in injury	
■ The source of the rele	ease has been stopped.		
■ The impacted area ha	s been secured to protect human health	and the environment.	
Released materials ha	ave been contained via the use of berms	or dikes, absorbent pads, or other containment devices.	
■ All free liquids and re	ecoverable materials have been removed	and managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, expla	ain why:	
Per 19.15.29.8 B. (4) NM	AC the responsible party may commen-	ce remediation immediately after discovery of a release. If remediation	
		tial efforts have been successfully completed or if the release occurred	
		C), please attach all information needed for closure evaluation.	
		the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger	
public health or the environr	ment. The acceptance of a C-141 report by t	he OCD does not relieve the operator of liability should their operations have	
		threat to groundwater, surface water, human health or the environment. In r of responsibility for compliance with any other federal, state, or local laws	
and/or regulations.			
Printed Name. Brittar	ıy N. Esparza	Title: Environmental Technician	
Signature:	ny N. Esparza	Date: 01/03/2023	
Brittany.Espar	za@ConocoPhillips.com	Date: 01/03/2023 Telephone: (432) 221-0398	
email:		Telephone: (1997)	
OCD Only			
	dun Hariman	Date: 01/03/2023	
Received by:	elyn Harimon	Date:01/03/2023	

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

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

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

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

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

CONDITIONS

Action 171711

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	171711
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	y Condition	Condition Date
jharimo	n None	1/3/2023

State of New Mexico

Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Site Assessment/Characterization

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

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

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

□ Laboratory data including chain of custody

Received by OCD: 3/24/2023 1:23:05 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page	100	of	2	06
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Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the	otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have
Printed Name:Jacob Laird	Title: _Environmental Engineer
Signature:email:Jacob.Laird@conocophillips.com	Date:3/24/2023
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482
OCD Only	
Received by:Jocelyn Harimon	Date: <u>03/27/2023</u>

Page 200 of 206

	1 480 200 01 2
Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Jacob Laird	Title:Environmental Engineer			
Signature: <u>Jacob Laird</u>	Date:3/24/2023			
Signature:acob_Laird @conocophillips.com	Telephone:575-703-5482			
OCD Only				
Received by:	Date:03/27/2023			
☐ Approved	Approval			
Signature: Jennifer Nobui	Date: 04/28/2023			



APPENDIX F

NMOCD Notifications

From: Enviro, OCD, EMNRD
To: Kalei Jennings

Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/06/2023)

Date: Thursday, February 2, 2023 9:51:30 AM

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

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

[**EXTERNAL EMAIL**]

Kalei,

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

JH

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Wednesday, February 1, 2023 7:41 PM

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

Cc: Josh Adams <jadams@ensolum.com>; Hadlie Green <hgreen@ensolum.com>

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/06/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of February 6, 2023.

- Windward Flowline/ NAPP2218850477
- Wilder CTB/ NAPP2300343271

Thank you,



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

From: Enviro, OCD, EMNRD

To: Kalei Jennings

Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/13/2023)

Date: Wednesday, February 8, 2023 4:30:13 PM

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

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

[**EXTERNAL EMAIL**]

Kalei,

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

JH

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings < kjennings@ensolum.com> **Sent:** Wednesday, February 8, 2023 2:54 PM

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

Cc: Hadlie Green <hgreen@ensolum.com>

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/13/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of February 13, 2023.

- Gold Coast 26 Fed 1H/ NAPP2234636400
- Wilder CTB/ NAPP2300343271
- White Falcon 16 State 001H/ NAPP2301735698

Thank you,



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

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

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

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

Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 200649

CONDITIONS

State of New Mexico Energy, Minerals and Natural Resources

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	200649
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.	4/28/2023