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Detailed description of proposed remediation technique

Page 5

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID:	NRM2014147987
District RP:	
Facility ID	
Application ID	

Remediation Plan

 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(Proposed schedule for remediation (note if remediation plan timeli 		
<u>Deferral Requests Only</u>: Each of the following items must be confined to the confined to th	med as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around prod deconstruction.	uction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, t	ne 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: Jim Raley Signature: Image: Printed Name: Image: Ima		
OCD Only Received by: Jocelyn Harimon Approved Approved with Attached Conditions of Approved	Date: 01/24/2023	
	ate: <u>5/23/2023</u>	

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

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Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NRM2014147987
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com Incident # (assigned by OCD)	
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

32.09264 Latitude

-103.94825 Longitude (NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Brushy Draw Federal 35 #002H	Site Type: Production Facility
Date Release Discovered: 05/14/2020	API# (if applicable): 30-015-40006

Unit Letter	Section	Township	Range	County
А	35	25S	29E	Eddy

Surface Owner: State X Federal Tribal Private (Name: _____

Nature and Volume of Release

	Material(s) Released (Select all that apply and attach ca	lculations or specific justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)

1 1 ..

X Produced Water	Volume Released (bbls): 30	Volume Recovered (bbls): 10
	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:

At 16:00 hours, water transfer polyline failed outside of containment and released produced water onto the northeast side of the pad.

$$bbl \ estimate = \frac{saturated \ soil \ volume \ (ft^3)}{4.21(\frac{ft^3}{bbl \ equivalent})} * estimated \ soil \ porosity(\%)$$

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Incident ID	NRM2014147987
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	Quantity was greater than 25bbls
19.15.29.7(A) NMAC?	
19.13.29.7(A) INMAC?	
X Yes No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification
	1/15/2020 to Mike Bratcher, Jim Griswold, Christina Venegas, and Robert Hamlet.
was given by chian on 05	15/2020 to Mike Didener, sin Griswold, emisting venegas, and Robert Hannet.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\overline{\mathbf{X}}$ The source of the release has been stopped.

 \mathbf{x} The impacted area has been secured to protect human health and the environment.

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

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

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

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Title: Environmental Specialist
Date: 05/19/2020
Telephone: (575)725-1647

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Oil Conservation Division

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Incident ID:	NRM2014147987	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗙 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗙 Yes 🗌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/25 Form C-141	/2023 12:00:26 AM State of New Mex	tico	Incident ID:	Page 5 of 314 NRM2014147987
Page 4	Oil Conservation Div	vision	District RP	
			Facility ID	
			Application ID	
regulations all operators public health or the envir failed to adequately inve	information given above is true and comple are required to report and/or file certain rel ronment. The acceptance of a C-141 report stigate and remediate contamination that p ce of a C-141 report does not relieve the op Raley	lease notifications and perform co t by the OCD does not relieve the ose a threat to groundwater, surfa	rrective actions for relea operator of liability sho ce water, human health iance with any other fec	ases which may endanger uld their operations have or the environment. In
email: <u>jim.raley@dvr</u>	1.com	Telephone: 575-68	9-7597	
OCD Only Received by: Joc	elyn Harimon	Date:01/	/25/2023	

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Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID:	NRM2014147987
District RP:	
Facility ID	
Application ID	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poin Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29. Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	ifirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
OCD Only	04/04/0000
Received by: Jocelyn Harimon	Date:01/24/2023
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:



DEFERRAL REQUEST REPORT

Site Location:

North Brushy Draw Federal 35 #002H North Brushy Draw Federal 35 #009H

> Eddy County, New Mexico Incident Numbers NRM2014147987 NRM2020657799

> > January 19, 2023 Ensolum Project No. 03A1987005 03A1987012

> > > Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220 Attention: Jim Raley

Prepared by:

myn S. Holy

Joseph S. Hernandez Senior Geologist

Ashley L. ager

Ashley Ager, M.S., P.G. Principal

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 10333 Harwin Drive, Suite 470 | Houston, TX 77036 | ensolum.com Texas PG Firm No. 50588 | Texas PE Firm No. F-21843

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2.0	REMEDIATION ACTIVITIES	2
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	2.3 Waste Handling	3-4
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	Figure 2 – Excavation Soil Sample Locations
	Figure 3 – Delineation Soil Sample Locations
Appendix B:	Photographic Documentation
Appendix C:	Lithologic Soil Sampling Logs
Appendix D:	Tables
Appendix E:	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F:	Correspondence Emails



1.0 INTRODUCTION

Ensolum, LLC (Ensolum), on behalf of WPX Permian, LLC (WPX), has prepared this Deferral Request Report (DRR) to document remediation and soil sampling activities completed at the North Brushy Draw Federal 35 #002H and North Brushy Draw Federal 35 #009H (hereinafter referred to as the "Site") in Unit A, Section 35, Township 25 South, Range 29 East, in Eddy County, New Mexico (**Figure 1** in **Appendix A**). The corrective actions have been completed in accordance with a Remediation Work Plan (RWP) authored by WPX, which was approved by the New Mexico Oil and Conservation Division (NMOCD) on April 6, 2022. All previous remediation activities and soil sample analytical results can be referenced in the original RWP.

1.1 Site Description & Background

The Site is located within Eddy County, New Mexico (32.09264°N, 103.94825°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (**Figure 1 in Appendix A**).

As previously documented in the RWP, the release of produced water from Incident Number NRM2020657799 overlapped the release of produced water associated with Incident Number NRM2014147987. Corrective actions for these releases were addressed concurrently and are described below.

1.2 Site Characterization

Based on the results of the Site Characterization documented in the RWP, specifically the 1 percent (%) Flood Zone designation and potential watercourse, the following NMOCD Table 1 Closure Criteria (Closure Criteria) were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH): 100 mg/kg
- Chloride: 600 mg/kg

2.0 **REMEDIATION ACTIVITIES**

The primary objectives of Ensolum's scope of services were to document that response actions performed at the Site were completed in accordance with the applicable NMOCD regulatory guidelines and to document those concentrations of constituents of concern (COCs) in soil remaining on-Site.

2.1 Excavation Activities

The RWP presented results from original samples collected to delineate lateral impacts but provided an incomplete vertical extent of the releases. Between April 22, 2022 and May 19, 2022, excavation activities were conducted by Ensolum to remove impacted soil within the subject releases and/or other areas identified during previous delineation activities via heavy equipment. Excavation activities were driven by referencing delineation laboratory analytical results documented in the RWP and by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector and chloride using Hach[®] chloride QuanTab[®] test strips.



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Following removal of impacted soil, Ensolum collected composite soil samples at a sampling frequency of 200 square feet from the sidewalls and floor of the excavations to confirm impacted soil above the Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.

The soil samples were placed directly into a 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 and chilled under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

NRM2014147987

A total of sixteen composite sidewall soil samples (SW01 through SW16) and twenty-six composite floor soil samples (FS01 through FS26) were collected from varying depth ranges inside the final excavation(s). Excluding chloride results for composite sidewall soil sample SW02, SW04 and SW15 all COCs for final composite soil samples were within the applicable Closure Criteria designated for the Site. Sidewall soil associated with SW04 and SW15 was removed and replaced with SW16.

NRM2020657799

Ensolum recollected two composite sidewall soil samples (SW01 and SW02) and six composite floor soil samples (FS01 through FS06) from varying depth ranges inside the final excavation. Shallow depths associated with FS04, FS05 and FS06 contained soil from the floors and sidewalls. The area represented by BS20-04 at 2 feet in the RWP was advanced to 4 feet to remove chloride exceedances (FS02). All COCs for final composite soil samples were within the applicable Closure Criteria designated for the Site.

The approximate extent of excavations and excavation soil sample locations is provided on **Figure 2** in **Appendix A**. Photographic documentation of remediation activities is included in **Appendix B**.

2.2 Delineation Activities

Between April 26 and 29, 2022, additional delineation activities were conducted by Ensolum to confirm the presence or absence of impacted soil in areas that were not excavated and to identify a lateral delineation area of the lined tank battery containment. Delineation soil samples were collected either in potholes advanced with a backhoe (samples designated PH) or in boreholes advanced with a hand auger (samples designated BH). A total of two soil samples were collected from each delineation soil sample location (PH01, PH02, and BH01): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 1 foot bgs) and the greatest depth (4 feet bgs). The location of the delineation soil samples and previous soil samples collected by WPX are shown in **Figure 3** in **Appendix A** for reference. Field screening results and observations for each delineation soil sample collected by Ensolum were recorded on lithologic/soil sampling logs (**Appendix C**). The soil samples were field screened, handled, collected and analyzed as previously described.

2.3 Waste Handling

In addition to the previous documented removal of impacted soil (200 cubic yards), 1,300 cubic yards of impacted soil were excavated under WPX-approved manifests, totaling 1,500 cubic

ENSOLUM



Page 4

yards. The excavated impacted soil was transported for disposal to a R360 Environmental Solutions, LLC Facility in accordance with state and federal regulations

3.0 SOIL SAMPLING RESULTS

Excluding chloride results for SW02 associated with Incident Number NRM2014147987, all other COCs associated with final confirmation and delineation soil samples were within the applicable Closure Criteria. All final laboratory analytical soil sample results for the subject releases are summarized in the **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**. **Appendix F** provides correspondence email notification receipts associated with the release.

4.0 FINDINGS AND CONCLUSIONS

Initial response efforts by WPX included delineation and/or excavation of impacted soils for two reported releases of produced water. Soil laboratory analytical data collected by WPX indicated remediation activities were warranted. The following findings and conclusions regarding the Site are presented:

- Recent collection of PH01, PH02 and BH01 further supports lateral delineation documented in the RWP and absence of elevated COCs as compared to the Site-specific Closure Criteria. Vertical delineation of the release was achieved through confirmation sampling;
- A total of 1,500 cubic yards of impacted soil were excavated and transported for disposal to a R360 Environmental Solutions, LLC Facility in accordance with state and federal regulations;
- NRM2014147987 Composite sidewall soil sample SW02 exhibited a minimally increased concentration of 1,590 mg/kg chloride. Further lateral advancement of SW02 was limited due to the current Site configuration associated with the lined tank battery containment. All other COCs associated with final composite sidewall and floor samples were within the applicable Closure Criteria; and
- NRM2020657799 All COCs associated with final composite sidewall and floor samples were within the applicable Closure Criteria.

5.0 DEFERRAL REQUEST

Based on the corrective actions and the data summary documented in the RWP, subsequent remediation activities and final excavation and delineation soil sample results, WPX requests a deferral to leave minimally elevated chloride associated with SW02 (NRM2014147987) until plugging and abandonment of the Site for the following reasons:

- Besides the 1% Flood Zone feature modeled by National Flood Hazard Layer (NFHL) and potential watercourse identified using the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper), no other sensitive receptors appear to exist. Depth to groundwater at the Site is estimated to be greater than 100 feet below ground bgs based a soil boring (MW-1) that was drilled by Talon LPE on December 8, 2020, located within 1 mile southwest of the Site.
- Although SW02 contained chloride levels exceeding the Site Closure Criteria (600 mg/kg), the value was relatively low (1,590 mg/kg) within the ground surface to 4 feet bgs;



• Based on the existing soil laboratory analytical results for BH01 and the assumption that impacts associated with SW02 do not extend beyond the northern edge of the lined tank battery containment, an estimated 40 cubic yards of residual chloride impacted soil above the Closure Criteria remains at the Site.

WPX believes the data described above meets the recommendations set forth in NMAC 19.15.29.11. Excavation of SW02 is restricted by lined tank battery containment and removal of the containment is likely to weaken the integrity of the liner, which is not designed to be compromised. As such, WPX respectfully requests deferral of a total of approximately 40 cubic yards to leave minimally increased concentrations of chloride (1,590 mg/kg) in place based on the above reasons. WPX believes the corrective actions performed for these releases is equally protective of human health, the environment and groundwater and requests No Further Action for Incident Numbers NRM2014147987 and NRM2020657799 and the Site should be respectfully considered for Deferral by the NMOCD.





APPENDIX A

Figures

Received by OCD: 1/25/2023 12:00:26 AM





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APPENDIX B

Photographic Log







APPENDIX C

Lithologic Soil Sampling Logs

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								Sample Name: PH01	Date: 04/26/2022
	E E N S O L U M							Site Name: North Brushy Dra	aw Federal 35 #002H
				~ `		Incident Number: NRM2014	147987		
							Job Number: 03A1987005		
	l	ITHOL	DGIC	: / SOIL S	AMPLING	LOG		Logged By: GM	Method: Track Hoe
	inates: 32.0							Hole Diameter: n/a	Total Depth: 4 feet
			-					ID for chloride and vapor, res ctors included. SAA - Same A	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
					1 - -	10 	CCHE	dry pad caliche cap, no	stain.
м	200	-	No	PH01	- - 1 - - -	- - - - - -	SP-SM	(1-4') moist, brown poo gravel and silt, no odor no cohesiveness.	orly-graded sand (m.) with , no stain, no plasticity,
м	-	-	No			2	SP-SM		
м	-	-	No			- - - - - -	SP-SM		
м	200	-	No	PH01	4	- 4	SP-SM		
						Total De	oth: 4 fe	et bgs.	
				_					



•

								Sample Name: BH01	Date: 04/29/2022
		F		S C		UN		Site Name: North Brushy Draw F	ederal 35 #002H
				~ `		Incident Number: NRM2014147987			
						Job Number: 03A1987005			
	l	LITHOLO	DGIC	: / SOIL S	AMPLING	LOG		Logged By: GM	Method: Hand Auger
	nates: 32.							Hole Diameter: 2.5 inches	Total Depth: 4 feet
			-					ID for chloride and vapor, respect ctors included. SAA - Same As Ab	-
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
D	520	-	No	BH01	1 - - 1 - -		SP-SM	(1-4') dry, brown poorly-gr gravel and silt, no odor, no cohesiveness.	aded sand (m.) with stain, no plasticity, no
м	-	-	No		- - - - -	- - - - -	SP-SM	(2-4') moisture content cha	anges to moist
м	120	-	No			- - - - - - -	SP-SM		
м	BDL	-	No	BH01	- - 4	- - - 4	SP-SM		
						Total De	ptn: 4 fe	er bgs.	
Í									



APPENDIX D

Tables

E N S O L U M

SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - North Brushy Draw Federal 35 #002H/#009H Eddy County, New Mexico									
			I	Ensolum Project No. (3A1987005 / 03A198	7012			
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
			Excava	tion Soil Sample Anal	ytical Results (NRM	2014147987)			
FS01	04/22/2022	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	791
FS01	05/19/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	75.3
FS02	04/22/2022	3	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	611
FS02	05/19/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	83.4
FS03	04/22/2022	3 - 4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	673
FS03	05/19/2022	4.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	170
FS04	04/22/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	690
FS04	05/19/2022	4 - 4.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	159
FS05	04/22/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	569
FS06	04/25/2022	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	72.1
FS07	04/25/2022	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	103
FS08	04/25/2022	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	55.5
FS09	04/25/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	160
FS10	04/25/2022	3 - 4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	219
FS11	04/25/2022	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	401
FS12	04/25/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	572
FS13	04/25/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	59.7
FS14	04/25/2022	3 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	559
FS15	04/26/2022	3 - 4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	82.1
FS16	04/26/2022	3 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	317
FS17	04/26/2022	3	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	114
FS18	04/26/2022	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	622
FS18	05/19/2022	3.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	167
FS19	04/26/2022	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	514
FS20	04/26/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	553
FS21	04/27/2022	14 - 15	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	44.7

TABLE 1

E N S O L U M

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC - North Brushy Draw Federal 35 #002H/#009H
Eddy County, New Mexico

Ensolum Project No. 03A1987005 / 03A1987012

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	100	600
FS22	04/27/2022	14	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	95.4
FS23	04/28/2022	3 - 14	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	87.6
FS24	04/28/2022	3 - 14	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	115
FS25	04/28/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	458
FS26	04/28/2022	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	82.3
SW01	04/25/2022	0 - 3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	471
SW02	04/25/2022	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,590
SW03	04/27/2022	0 - 4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	303
SW04	04/27/2022	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,290
SW05	04/28/2022	0 - 14	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	267
SW06	04/28/2022	0 - 14	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	223
SW07	04/28/2022	0 - 14	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	246
SW08	04/28/2022	0 - 14	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	207
SW09	04/28/2022	0 - 14	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	167
SW10	04/28/2022	0 - 14	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	202
SW11	04/28/2022	0 - 14	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	309
SW12	04/28/2022	0 - 14	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	308
SW13	04/28/2022	0 - 14	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	162
SW14	04/28/2022	0 - 14	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	290
SW15	04/29/2022	0 - 3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	1,310
SW16	04/29/2022	0 - 3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	209

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E N S O L U M

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - North Brushy Draw Federal 35 #002H/#009H

Eddy County, New Mexico

Ensolum Project No. 03A1987005 / 03A1987012

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Sample Analytical Results (NRM2014147987)									
PH01	04/26/2022	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	356
PH01	04/26/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	288
PH02	04/26/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	350
PH02	04/26/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	466
BH01	04/29/2022	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<5.00
BH01	04/29/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	48.0
			Excavat	ion Soil Sample Anal	ytical Results (NRM2	2020657799)			
FS01	04/22/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	16.2
FS02	04/22/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	29.6
FS03	04/22/2022	2 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	222
FS04	04/22/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	187
FS05	04/22/2022	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	57.5
FS06	04/22/2022	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	13.8
SW01	04/22/2022	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	75.9
SW02	04/22/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	149

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

Gray text indicates soil has been excavated and is no longer present

3 of 3

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APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Received by OCD: 1/25/2023 12:00:26 AM

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2240-1

Laboratory Sample Delivery Group: 03A1987012 Client Project/Site: North Brushy Draw 35-9H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

RAMER

Authorized for release by: 5/6/2022 5:48:12 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

Expert

SDG: 03A1987012

Laboratory Job ID: 890-2240-1

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Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

	Definitions/Glossary	1
Client: Ensolum	n Job ID: 890-2240-1	
Project/Site: No	orth Brushy Draw 35-9H SDG: 03A1987012	2 2
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		7
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	8
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	3
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	10
%R	Percent Recovery	
CFL	Contains Free Liquid	11
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	12
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	12
DL	Detection Limit (DoD/DOE)	13
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)	14
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	

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

PRES

QC

RER

RL

RPD TEF

TEQ

TNTC

4

5

Case Narrative

Client: Ensolum Project/Site: North Brushy Draw 35-9H Job ID: 890-2240-1 SDG: 03A1987012

Job ID: 890-2240-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2240-1

Receipt

The samples were received on 4/26/2022 10:47 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

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

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

Project/Site: North Brushy Draw 35-9H

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

RL

0.00200

MDL Unit

mg/Kg

D

Prepared

05/04/22 12:43

Dil Fac

1

Job ID: 890-2240-1 SDG: 03A1987012

Client Sample ID: FS01

Date Collected: 04/22/22 08:45 Date Received: 04/26/22 10:47

Sample Depth: 4

Analyte

Benzene

Client: Ensolum

Lab Sample ID: 890-2240-1

Analyzed

05/06/22 11:08

Matrix: Solid

> 11 12 13

					5. 5				
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 11:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/22 12:43	05/06/22 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 11:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/22 12:43	05/06/22 11:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/04/22 12:43	05/06/22 11:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/04/22 12:43	05/06/22 11:08	1
Method: Total BTEX - Total BTE>	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/06/22 12:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/29/22 16:37	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/27/22 16:45	04/28/22 23:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 16:45	04/28/22 23:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 16:45	04/28/22 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/27/22 16:45	04/28/22 23:54	1
o-Terphenyl	118		70 - 130				04/27/22 16:45	04/28/22 23:54	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		4.96		mg/Kg			04/29/22 15:04	1
lient Sample ID: FS02							Lab Sar	nple ID: 890-	2240-2
ate Collected: 04/22/22 09:10								Matri	ix: Solid
ate Received: 04/26/22 10:47									
ample Depth: 4									
Method: 8021B - Volatile Organic	Compounds	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:43	05/06/22 11:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:43	05/06/22 11:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:43	05/06/22 11:29	1
m Vulana & n Vulana	<0.00206		0.00206		malla		05/04/00 10:40	05/06/22 11:20	

m-Xylene & p-Xylene <0.00396 U 0.00396 05/04/22 12:43 05/06/22 11:29 mg/Kg o-Xylene <0.00198 U 0.00198 05/04/22 12:43 05/06/22 11:29 mg/Kg Xylenes, Total <0.00396 U 0.00396 mg/Kg 05/04/22 12:43 05/06/22 11:29 %Recovery Qualifier Limits Prepared Surrogate Analyzed 4-Bromofluorobenzene (Surr) 104 70 - 130 05/04/22 12:43 05/06/22 11:29

Eurofins Carlsbad

1

1

1

1

Dil Fac

Project/Site: North Brushy Draw 35-9H

Method: Total BTEX - Total BTEX Calculation

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

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

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

%Recovery

<0.00396

<49.9 U

100

Result Qualifier

Ū

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

Qualifier

Client Sample Results

Limits

70 - 130

RL

RL

49.9

RL

49.9

49.9

49.9

0.00396

MDL Unit

mg/Kg

Job ID: 890-2240-1 SDG: 03A1987012

Client Sample ID: FS02

Date Collected: 04/22/22 09:10 Date Received: 04/26/22 10:47

Sample Depth: 4

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Client: Ensolum

Lab Sample	ID:	890-2240-2

Analyzed

05/06/22 11:29

Analyzed

05/06/22 12:58

Matrix: Solid

Dil Fac

Dil Fac

9	Dil Fac	Analyzed	Prepared	D	Unit	MDL
	1	04/29/22 16:37			mg/Kg	
	Dil Fac	Analyzed	Prepared	D	Unit	MDL
	1	04/29/22 00:15	04/27/22 16:45		mg/Kg	
	1	04/29/22 00:15	04/27/22 16:45		mg/Kg	
13	1	04/29/22 00:15	04/27/22 16:45		mg/Kg	
	Dil Fac	Analyzed	Prepared			
	1	04/29/22 00.15	04/27/22 16:45			

Prepared

05/04/22 12:43

Prepared

D

Surrogate	%Recovery Qua	alifier Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	103	70 - 130		04/27/22 16:45	04/29/22 00:15	1
o-Terphenyl	126	70 - 130		04/27/22 16:45	04/29/22 00:15	1
Method: 300.0 - Anions, Ion Chron	atography - Sol			Descende	Anakarad	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		5.01		mg/Kg			04/29/22 15:30	1
Client Sample ID: FS03							Lab Sar	nple ID: 890-	2240-3

Client Sample ID: FS03

Date Collected: 04/22/22 09:45 Date Received: 04/26/22 10:47 Sample Depth: 2 - 4

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 05/04/22 12:43 05/06/22 11:49 Toluene <0.00199 U 0.00199 mg/Kg 05/04/22 12:43 05/06/22 11:49 1 Ethylbenzene <0.00199 U 0.00199 05/04/22 12:43 05/06/22 11:49 mg/Kg 05/06/22 11:49 m-Xylene & p-Xylene <0.00398 U 0.00398 05/04/22 12:43 mg/Kg 1 o-Xylene <0.00199 U 0.00199 mg/Kg 05/04/22 12:43 05/06/22 11:49 Xylenes, Total <0.00398 U 0.00398 mg/Kg 05/04/22 12:43 05/06/22 11:49 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 70 - 130 4-Bromofluorobenzene (Surr) 05/04/22 12:43 109 05/06/22 11:49 1 1,4-Difluorobenzene (Surr) 102 70 - 130 05/04/22 12:43 05/06/22 11:49 1 Method: Total BTEX - Total BTEX Calculation Analvte RL MDL D Dil Fac Result Qualifier Unit Prepared Analvzed Total BTEX <0.00398 Ū 0.00398 05/06/22 12:58 mg/Kg Method: 8015 NM - Diesel Range Organics (DRO) (GC) Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed <50.0 U Total TPH 50.0 04/29/22 16:37 mg/Kg 1

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-9H

Client Sample ID: FS03

Date Collected: 04/22/22 09:45 Date Received: 04/26/22 10:47

Date Received: 04/26/22 1

Sample Depth: 2 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/27/22 16:45	04/29/22 00:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/22 16:45	04/29/22 00:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/22 16:45	04/29/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/27/22 16:45	04/29/22 00:36	1
o-Terphenyl	120		70 _ 130				04/27/22 16:45	04/29/22 00:36	1

Method: 300.0 - Anions, ion Chrom	latograpny - Sol	luble					
Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222	4.98	mg/Kg			04/29/22 15:39	1

Client Sample ID: FS04

Date Collected: 04/22/22 09:55

Date Received: 04/26/22 10:47

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/04/22 12:43	05/06/22 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/04/22 12:43	05/06/22 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/04/22 12:43	05/06/22 12:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130				05/04/22 12:43	05/06/22 12:09	1
Method: Total BTEX - Total BTE>	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•									
•	<0.00399	U	0.00399		mg/Kg			05/06/22 12:58	1
Total BTEX			0.00399		mg/Kg			05/06/22 12:58	1
Total BTEX Method: 8015 NM - Diesel Range	organics (DR		0.00399	MDL	mg/Kg Unit		Prepared	05/06/22 12:58 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte	organics (DR	O) (GC) Qualifier		MDL		D	Prepared		1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result <50.0	O) (GC) Qualifier U	RL	MDL	Unit	D	Prepared	Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR 	O) (GC) Qualifier U	RL		Unit	D	Prepared	Analyzed	1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR 	O) (GC) Qualifier U RO) (GC) Qualifier	RL 50.0		Unit mg/Kg		<u>·</u>	Analyzed 04/29/22 16:37	1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (DR Result <50.0 ge Organics (D Result	O) (GC) Qualifier U RO) (GC) Qualifier			Unit mg/Kg Unit		Prepared	Analyzed 04/29/22 16:37 Analyzed	1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <50.0 ge Organics (D Result	O) (GC) Qualifier U RO) (GC) Qualifier U			Unit mg/Kg Unit		Prepared	Analyzed 04/29/22 16:37 Analyzed	1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (D Result <50.0 <50.0	O) (GC) Qualifier U RO) (GC) Qualifier U	RL 50.0 RL 50.0 50.0		Unit mg/Kg Unit mg/Kg		Prepared 04/27/22 16:45 04/27/22 16:45	Analyzed 04/29/22 16:37 Analyzed 04/29/22 01:18 04/29/22 01:18	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (D Result <50.0	O) (GC) Qualifier U RO) (GC) Qualifier U	RL 50.0 RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 04/27/22 16:45	Analyzed 04/29/22 16:37 Analyzed 04/29/22 01:18	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	e Organics (DR Result <50.0 ge Organics (D Result <50.0 <50.0	O) (GC) Qualifier U RO) (GC) Qualifier U U	RL 50.0 RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/27/22 16:45 04/27/22 16:45	Analyzed 04/29/22 16:37 Analyzed 04/29/22 01:18 04/29/22 01:18	Dil Fac 1 Dil Fac 1 1 1 Dil Fac

04/27/22 16:45 04/29/22 01:18

Lab Sample ID: 890-2240-4

Matrix: Solid

o-Terphenyl

70 - 130

118

1

Client Sample Results										
Client: Ensolum								Job ID: 890		
Project/Site: North Brushy Draw 3	5-9H							SDG: 03A1	1987012	
Client Sample ID: FS04							Lab Sar	nple ID: 890-	2240-4	
Date Collected: 04/22/22 09:55							Matrix: Solid			
Date Received: 04/26/22 10:47										
Sample Depth: 2										
_ Method: 300.0 - Anions, Ion Ch	romotography	Colubio								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	187		5.00		mg/Kg			04/29/22 15:48	1	
Client Sample ID: FS05							l ah Sar	nple ID: 890-	2240-5	
							Lab Sal			
Date Collected: 04/22/22 10:30 Date Received: 04/26/22 10:47								watri	x: Solid	
Sample Depth: 2										
Method: 8021B - Volatile Organ	ic Compounds (GC)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:30	1	
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:30	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:30	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/04/22 12:43	05/06/22 12:30	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 12:30	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/04/22 12:43	05/06/22 12:30	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		70 - 130				05/04/22 12:43	05/06/22 12:30	1	
1,4-Difluorobenzene (Surr)	93		70 - 130				05/04/22 12:43	05/06/22 12:30	1	
– Method: Total BTEX - Total BTE	X Calculation									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00400		0.00400		mg/Kg			05/06/22 12:58	1	
_ Method: 8015 NM - Diesel Rang	o Organico (DB)									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			04/29/22 16:37	1	
Ξ										
Method: 8015B NM - Diesel Rar						_				
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/27/22 16:45	04/29/22 01:39	1	
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/27/22 16:45	04/29/22 01:39	1	
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/22 16:45	04/29/22 01:39	1	
							5 I/ <i>LI/LL</i> 10.70	0 11 LOILL 01.00	I	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	93		70 - 130				04/27/22 16:45	04/29/22 01:39	1	
o-Terphenyl 	104		70 - 130				04/27/22 16:45	04/29/22 01:39	1	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	57.5		4.99		mg/Kg			04/29/22 15:57	1	

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Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

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

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Qualifier

Qualifier

11

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

Result Qualifier

83 102

13.8

<0.00202 U

<0.00202 U

<0.00202 U

<0.00404 U

<0.00202 U

<0.00404 U

100

94

Result

< 0.00404

%Recovery

RL

0.00202

0.00202

0.00202

0.00404

0.00202

0.00404

Limits

70 ₋ 130 70 ₋ 130

RL

RL

49.9

RL

49.9

49.9

499

RL

5.03

Limits

70 - 130

70 - 130

0.00404

MDL

MDL Unit

MDL Unit

мрі

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

D

D

D

D

Prepared

05/04/22 12:43

05/04/22 12:43

05/04/22 12:43

05/04/22 12:43

05/04/22 12:43

05/04/22 12:43

Prepared

05/04/22 12:43

05/04/22 12:43

Prepared

Prepared

Prepared

04/27/22 16:45

Job ID: 890-2240-1 SDG: 03A1987012

Client Sample ID: FS06

Date Collected: 04/22/22 10:45 Date Received: 04/26/22 10:47

Sample Depth: 2

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client: Ensolum

Analyzed

05/06/22 12:50

05/06/22 12:50

05/06/22 12:50

05/06/22 12:50

05/06/22 12:50

05/06/22 12:50

Analyzed

05/06/22 12:50

05/06/22 12:50

Analyzed

05/06/22 12:58

Analyzed

04/29/22 16:37

Analyzed

04/29/22 02:00

04/29/22 16:06

Lab Sample ID: 890-2240-7

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

Matrix: Solid

п	Prepared	Analyzed	Dil Fac
	04/27/22 16:45	04/29/22 02:00	1
	04/27/22 16:45	04/29/22 02:00	1
	Prepared	Analyzed	Dil Fac
	04/27/22 16:45	04/29/22 02:00	1
	04/27/22 16:45	04/29/22 02:00	1

Client Sample ID: SW01 Date Collected: 04/22/22 10:15

Date Received: 04/26/22 10:47 Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 13:11	1			
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 13:11	1			
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 13:11	1			
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/22 12:43	05/06/22 13:11	1			
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 13:11	1			
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/22 12:43	05/06/22 13:11	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	109		70 - 130				05/04/22 12:43	05/06/22 13:11	1			

Method: Total BTEX - Total BTEX Calculation

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

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

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

Client Sample Results

Job ID: 890-2240-1 SDG: 03A1987012

Analyzed

05/06/22 13:11

Analyzed

05/06/22 12:58

Analyzed

04/29/22 16:37

Analyzed

04/29/22 02:20

04/29/22 02:20

04/29/22 02:20

04/29/22 16:15

Lab Sample ID: 890-2240-8

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

1

1

Client Sample ID: SW01

Date Collected: 04/22/22 10:15 Date Received: 04/26/22 10:47

Sample Depth: 0 - 4

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client: Ensolum

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Analyte

Chloride

(GRO)-C6-C10

Total TPH

Total BTEX

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

Result

75.9

101

<0.00401 U

Lab Sample ID: 890-2240-7

Prepared

05/04/22 12:43

Prepared

Prepared

Prepared

04/27/22 16:45

04/27/22 16:45

04/27/22 16:45

D

D

D

Limits

70 - 130

RL

RL

RL

50.0

50.0

50.0

5.00

50.0

0.00401

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

5
8
9

Surrogate 1-Chlorooctane	<u>%Recovery</u> Quali	<i>ifier Limits</i> 70 - 130			Prepared 04/27/22 16:45	Analyzed	
o-Terphenyl	98	70 - 130			04/27/22 16:45	04/29/22 02:20	
Method: 300.0 - Anions, Ion Chron	natography - Solul	ble					
Analyte	Result Quali	ifier RL	MDL Unit	D	Prepared	Analyzed	

Client Sample ID: SW02

Date Collected: 04/22/22 10:55 Date Received: 04/26/22 10:47 Sample Depth: 0 - 4

	·	GC)				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/05/22 09:49	05/06/22 00:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/05/22 09:49	05/06/22 00:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/05/22 09:49	05/06/22 00:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/22 09:49	05/06/22 00:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/05/22 09:49	05/06/22 00:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/22 09:49	05/06/22 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/05/22 09:49	05/06/22 00:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/05/22 09:49	05/06/22 00:55	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/06/22 12:58	1
- Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyto									

Client Sample Results

RL

50.0

50.0

50.0

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/27/22 16:45

04/27/22 16:45

04/27/22 16:45

Prepared

04/27/22 16:45

04/27/22 16:45

Client: Ensolum
Project/Site: North Brushy Draw 35-9H

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

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

88

104

Client Sample ID: SW02

Date Collected: 04/22/22 10:55 Date Received: 04/26/22 10:47

Sample Depth: 0 - 4

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

(GRO)-C6-C10

Lab Sample ID: 890-2240-8

Analyzed

04/29/22 02:41

04/29/22 02:41

04/29/22 02:41

Analyzed

04/29/22 02:41

04/29/22 02:41

Matrix: Solid

Dil Fac

1

1

1

1

1

1

Dil Fac

Job ID: 890-2240-1 SDG: 03A1987012

5

Method: 300.0 - Anions, Ion Chromatography - Soluble Prepared Analyte Result Qualifier RL MDL Unit D Dil Fac Analyzed 5.05 04/29/22 16:41 Chloride 149 mg/Kg

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		Ę
880-14385-A-1-E MS	Matrix Spike	105	95		
880-14385-A-1-F MSD	Matrix Spike Duplicate	106	92		
880-14421-A-3-B MS	Matrix Spike	108	103		- 22
880-14421-A-3-C MSD	Matrix Spike Duplicate	109	103		
890-2240-1	FS01	107	98		
890-2240-2	FS02	104	100		
890-2240-3	FS03	109	102		
890-2240-4	FS04	110	102		
890-2240-5	FS05	101	93		
890-2240-6	FS06	100	94		
890-2240-7	SW01	109	101		
890-2240-8	SW02	103	97		
LCS 880-24822/1-A	Lab Control Sample	105	97		
LCS 880-24865/1-A	Lab Control Sample	107	98		
LCSD 880-24822/2-A	Lab Control Sample Dup	102	96		
LCSD 880-24865/2-A	Lab Control Sample Dup	103	102		
MB 880-24822/5-A	Method Blank	98	95		
MB 880-24865/5-A	Method Blank	97	96		
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)	
890-2237-A-21-E MS	Matrix Spike	76	84	
890-2237-A-21-F MSD	Matrix Spike Duplicate	84	95	
890-2240-1	FS01	95	118	
890-2240-2	FS02	103	126	
890-2240-3	FS03	99	120	
890-2240-4	FS04	98	118	
890-2240-5	FS05	93	104	
890-2240-6	FS06	83	102	
890-2240-7	SW01	84	98	
890-2240-8	SW02	88	104	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-24356/2-A	Lab Control Sample	97	118	

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Prep Type: Total/NA

Prep Type: Total/NA

Surrogate Summary

		Ourrogu			
Client: Ensolum				Job ID: 890-2240-1	
Project/Site: North Brus	hy Draw 35-9H			SDG: 03A1987012	
Method: 8015B NM	- Diesel Range Organics	s (DRO) (GC	;) (Contii	nued)	
Matrix: Solid				Prep Type: Total/NA	
				Percent Surrogate Recovery (Acceptance Limits)	
		1CO2	OTPH2		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
LCSD 880-24356/3-A	Lab Control Sample Dup	98	118		
MB 880-24356/1-A	Method Blank	85	100		6
Surrogate Legend					
1CO = 1-Chlorooctane					
OTPH = o-Terphenyl					
-					

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Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24822/5-A Matrix: Solid Analysis Batch: 24907							Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 04:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 04:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 04:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/04/22 12:43	05/06/22 04:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:43	05/06/22 04:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/04/22 12:43	05/06/22 04:44	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				05/04/22 12:43	05/06/22 04:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/04/22 12:43	05/06/22 04:44	1
Lab Sample ID: LCS 880-24822/1-A Client Sample ID: Lab Control Sample								Sample	

Lab Sample ID: LCS 880-24822/1-A Matrix: Solid

Analysis Batch: 24907

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07973		mg/Kg		80	70 - 130	
Toluene	0.100	0.08490		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.08759		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1843		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-24822/2-A

Matrix: Solid

Analysis Batch: 24907							Prep	Batch:	24822
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07692		mg/Kg		77	70 - 130	4	35
Toluene	0.100	0.08317		mg/Kg		83	70 - 130	2	35
Ethylbenzene	0.100	0.08632		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1818		mg/Kg		91	70 - 130	1	35
o-Xylene	0.100	0.09989		mg/Kg		100	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-14385-A-1-E MS

Matrix: Solid Analysis Bataby 24007

Analysis Batch: 24907									Prep	Batch: 24822
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.0996	0.05707	F1	mg/Kg		57	70 - 130	
Toluene	<0.00201	U F1	0.0996	0.06471	F1	mg/Kg		65	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 890-2240-1

SDG: 03A1987012

MS MS

0.06720 F1

0.1427

0.07730

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: North Brushy Draw 35-9H

Lab Sample ID: 880-14385-A-1-E MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 24907

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Sample Sample

<0.00201

%Recovery

<0.00402 UF1

<0.00201 UF1

105

95

MS MS

Result Qualifier

U F1

Qualifier

Job ID: 890-2240-1 SDG: 03A1987012

Prep Type: Total/NA

Prep Batch: 24822

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

Pre

Client Sample ID: Method Blank

05/05/22 17:09

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24865

%Rec

67

72

78

Client Sample ID: Matrix

05/05/22 09:49

D

2 3 4 5 6 7 8 9 10 11

Spike Duplicate p Type: Total/NA	

Lab Sample ID: 880-14385-A-1-F MSD Matrix: Solid

Analysis Batch: 24907 Prep Batch: 24822 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits D 0.0994 0.04035 F1 Benzene <0.00201 UF1 mg/Kg 41 70 - 130 34 35 0.0994 0.04973 F1 Toluene <0.00201 UF1 mg/Kg 50 70 - 130 26 35 Ethylbenzene <0.00201 UF1 0.0994 0.05215 F1 mg/Kg 52 70 - 130 25 35 0.199 0.1129 F1 70 - 130 35 m-Xylene & p-Xylene <0.00402 UF1 mg/Kg 57 23 0.0994 <0.00201 UF1 0.06330 F1 64 70 - 130 20 35 o-Xylene mg/Kg

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

Lab Sample ID: MB 880-24865/5-A Matrix: Solid Analysis Batch: 24907

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/22 09:49	05/05/22 17:09	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				05/05/22 09:49	05/05/22 17:09	1

70 - 130

96

1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-24865/1-A Matrix: Solid Analysis Batch: 24907

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09018		mg/Kg		90	70 - 130	
Toluene	0.100	0.09404		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09779		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130	

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 24865

.

Client: Ensolum Project/Site: North Brushy Draw 35-9H

Lab Sample ID: LCS 880-24865/1-A

Matrix: Solid

Analysis Batch: 24907

Job ID: 890-2240-1 SDG: 03A1987012

Prep Type: Total/NA

Prep Batch: 24865

Client Sample ID: Lab Control Sample

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

-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.1105		mg/Kg		110	70 - 130		
	LCS	105									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene (Surr)		Quaimer	70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								
,											
Lab Sample ID: LCSD 880-2	4865/2-A					Clie	nt San	nple ID:	Lab Contro	I Sample	e Duj
Matrix: Solid									Prep T	ype: Tot	al/N
Analysis Batch: 24907									Prep	Batch:	2486
			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene			0.100	0.09163		mg/Kg		92	70 - 130	2	3
Toluene			0.100	0.09036		mg/Kg		90	70 - 130	4	3
Ethylbenzene			0.100	0.09342		mg/Kg		93	70 - 130	5	3
m-Xylene & p-Xylene			0.200	0.1947		mg/Kg		97	70 - 130	5	3
o-Xylene			0.100	0.1054		mg/Kg		105	70 - 130	5	3
	1000	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
Sunoyale		Quanner	70 - 130								
4-Bromofluorobenzene (Surr)			10 - 100								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-4	102		70 - 130					Client	Sample ID	: Matrix	Spik
1,4-Difluorobenzene (Surr)			70 - 130					Client	Sample ID	: Matrix	Snike
			70 - 130					Client	Sample ID Prep T	: Matrix	
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A			70 - 130					Client	Prep T		al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid	A-3-B MS	Sample	70 - 130 Spike	MS	MS			Client	Prep T	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid	A-3-B MS Sample	Sample Qualifier			MS Qualifier	Unit	D	Client %Rec	Prep T Prep	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907	A-3-B MS Sample	Qualifier	Spike			_ <mark>Unit</mark> mg/Kg	D		Prep T Prep %Rec	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte	A-3-B MS Sample Result	Qualifier	Spike Added	Result			<u>D</u>	%Rec	Prep T Prep %Rec Limits	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene	A-3-B MS Sample - Result <0.00200	Qualifier U U	Spike 	Result 0.07720	Qualifier	mg/Kg	D	%Rec 77	Prep T Prep %Rec Limits 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene	A-3-B MS Sample Result <0.00200 <0.00200	Qualifier U U U F1	Spike Added 0.101 0.101	Result 0.07720 0.07287	Qualifier	mg/Kg mg/Kg	D	%Rec 77 72	Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: Tot	al/N/
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.0	Qualifier U U U F1 U	Spike Added 0.101 0.101 0.101	Result 0.07720 0.07287 0.06917	Qualifier	mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 77 72 69	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200	Qualifier U U U F1 U U	Spike Added 0.101 0.101 0.101 0.202	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 77 72 69 71	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 	Qualifier U U U F1 U U MS	Spike Added 0.101 0.101 0.101 0.202 0.101	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 77 72 69 71	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 	Qualifier U U U F1 U U	Spike Added 0.101 0.101 0.101 0.202 0.101 Limits	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 77 72 69 71	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 MS %Recovery 108 	Qualifier U U U F1 U U MS	Spike Added 0.101 0.101 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 77 72 69 71	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 	Qualifier U U U F1 U U MS	Spike Added 0.101 0.101 0.101 0.202 0.101 Limits	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 77 72 69 71	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot	al/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> %Recovery 108 103	Qualifier U U U F1 U U MS	Spike Added 0.101 0.101 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 77 72 69 71 77	Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot Batch: :	al/N/ 2486
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> %Recovery 108 103	Qualifier U U U F1 U U MS	Spike Added 0.101 0.101 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot Batch: :	al/NA 2486
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> %Recovery 108 103	Qualifier U U U F1 U U MS	Spike Added 0.101 0.101 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.07720 0.07287 0.06917 0.1429	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Dike Dup	licate
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> %Recovery 108 103	Qualifier U U U F1 U U MS Qualifier	Spike Added 0.101 0.101 0.101 0.101 0.202 0.101 Limits 70 - 130	Result 0.07720 0.07287 0.06917 0.1429 0.07782	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot Batch: :	licate
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 103 A-3-C MSD Sample	Qualifier U U U F1 U U MS Qualifier	Spike Added 0.101 0.101 0.101 0.202 0.101 D.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101	Result 0.07720 0.07287 0.06917 0.1429 0.07782	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 130	Dike Dup Dike Tot Batch: :	licate al/NA 2486 al/NA 2486 RPI
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 108 103 A-3-C MSD Sample Result	Qualifier U U U F1 U U MS Qualifier Sample Qualifier	Spike Added 0.101 0.101 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 Description Figure 3 70 - 130 70 - 130 70 - 130 Spike	Result 0.07720 0.07287 0.06917 0.1429 0.07782	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg	lient Sa	%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec	Dike Dup	licate al/NA 2486 al/NA 2486 RPI Limi
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 103 A-3-C MSD Sample	Qualifier U U F1 U U MS Qualifier U	Spike Added 0.101 0.101 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 Limits 70 - 130 70 - 130 Spike Added	Result 0.07720 0.07287 0.06917 0.1429 0.07782	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl	lient Sa	%Rec 77 72 69 71 77 77	Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec Limits	Dike Dup Dike Dup Dype: Tot Batch: 2 RPD	licate al/NA 24865
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 MS %Recovery 108 103 A-3-C MSD Sample Result <0.00200 	Qualifier U U U F1 U U MS Qualifier U U U	Spike Added 0.101 0.101 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 D.202 0.101 Limits 70 - 130 70 - 130 Spike Added 0.0996	Result 0.07720 0.07287 0.06917 0.1429 0.07782	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl Unit mg/Kg mg/Kg	lient Sa	%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 130 9: Matrix Sp Prep T Prep %Rec Limits 70 - 130	Dike Dup Type: Tot Batch: 2 Dike Dup Type: Tot Batch: 2 20	licate al/NA 24865 al/NA 24865 RPC Limi 33
1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-14421-A Matrix: Solid Analysis Batch: 24907 Analyte Benzene	A-3-B MS Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <i>MS</i> <i>%Recovery</i> 108 103 A-3-C MSD Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 	Qualifier U U U F1 U U MS Qualifier U Qualifier U U U U U U F1	Spike Added 0.101 0.101 0.101 0.101 0.202 0.101 0.202 0.101 0.202 0.101 0.202 0.101 Limits 70 - 130 70 - 130 Spike Added 0.0996 0.0996	Result 0.07720 0.07287 0.06917 0.1429 0.07782	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl	lient Sa	%Rec 77 72 69 71 77	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Prep T Prep %Rec Limits 70 - 130 70 - 130	Dike Dup Type: Tot Dike Dup Type: Tot Batch: 2 20 20	licate

Client: Ensolum Project/Site: North Brushy Draw 35-9H

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

Lab Sample ID: 880-14421-A-3 Matrix: Solid Analysis Batch: 24907	-C MSD								Clie	nt Sa	ample ID:	Matrix Spike Prep Typ Prep Ba	e: To	tal/NA
	MSD	MSD												
Surrogate	%Recovery	Qua	ifier	Limits										
4-Bromofluorobenzene (Surr)	109			70 - 130										
1,4-Difluorobenzene (Surr)	103			70 - 130										
lethod: 8015B NM - Diese	I Range Or	gar	ics (DR	O) (GC)										
Lab Sample ID: MB 880-24356		-		,,,,,							Client Sa	mple ID: Me	thod	Blank
Matrix: Solid												Prep Typ		
Analysis Batch: 24366												Prep Ba		
,		мв	МВ											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed		Dil Fac
Gasoline Range Organics		50.0					mg/Kg		_		7/22 16:45	04/28/22 19:4		1
(GRO)-C6-C10		20.0	-	00.0			g ,g			0 II Z		5.,2 <i>5,22</i> 10	•	
Diesel Range Organics (Over C10-C28)	<	50.0	U	50.0			mg/Kg			04/2	7/22 16:45	04/28/22 19:4	4	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0			mg/Kg			04/2	7/22 16:45	04/28/22 19:4	4	
		MB	MB											
Surrogate	%Reco	very	Qualifier	Limits						P	repared	Analyzed		Dil Fac
1-Chlorooctane		85		70 - 130						04/2	7/22 16:45	04/28/22 19:4	14	
p-Terphenyl		100		70 - 130						04/2	7/22 16:45	04/28/22 19:4	14	1
Lab Sample ID: LCS 880-2435 Matrix: Solid Analysis Batch: 24366 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)				Spike Added 1000	LCS Result 1119 883.8	LCS Qua		Unit mg/Kg mg/Kg		<u>D</u>	%Rec	D: Lab Cont Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: To	tal/NA
510-020)														
	LCS													
Surrogate		Qua	ifier	Limits										
1-Chlorooctane	97			70 - 130										
o-Terphenyl	118			70 - 130										
Lab Sample ID: LCSD 990 242	56/3-A							CI	ient	Sam	ple ID: La	ab Control S		
												Prep Typ		
Matrix: Solid												Drop Br	tch:	24356
Matrix: Solid														
Matrix: Solid Analysis Batch: 24366				Spike	LCSD							%Rec		RPD
Matrix: Solid Analysis Batch: 24366				Spike Added	LCSD Result			Unit		D	%Rec	%Rec	RPD	RPI Limi
Lab Sample ID: LCSD 880-243 Matrix: Solid Analysis Batch: 24366 Analyte Gasoline Range Organics (GRO)-C6-C10				-				Unit mg/Kg		<u>D</u>	%Rec	%Rec		Limi
Matrix: Solid Analysis Batch: 24366 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over				Added	Result					<u>D</u>		%Rec Limits	RPD	Limi 20
Matrix: Solid Analysis Batch: 24366 Analyte Gasoline Range Organics				Added	Result 1104			mg/Kg		<u>D</u>	110	%Rec Limits 70 - 130	RPD 1	
Matrix: Solid Analysis Batch: 24366 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCSD %Recovery			Added	Result 1104			mg/Kg		<u>D</u>	110	%Rec Limits 70 - 130	RPD 1	Limi 2

1-Chlorooctane 98 70 - 130 70 - 130 o-Terphenyl 118

MS MS

MSD MSD

Qualifier

Result

893.3

840.0

717.9

Result Qualifier

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

%Rec

87

%Rec

82

70

Spike

Added

999

999

Limits

70 - 130

70 - 130

Spike

Added

999

Client: Ensolum Project/Site: North Brushy Draw 35-9H

Lab Sample ID: 890-2237-A-21-E MS

Lab Sample ID: 890-2237-A-21-F MSD

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 24366

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 24366

Gasoline Range Organics

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

Sample Sample

<49.9 U

<49.9 U

76

84

Sample Sample

<49.9 U

Result Qualifier

%Recovery

MS MS

Qualifier

Result Qualifier

Job ID: 890-2240-1 SDG: 03A1987012

Prep Type: Total/NA

Prep Batch: 24356

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

5
7
8
9

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 24356

%Rec

Limits

70 - 130

24356	p Batch:
RPD	
Limit	RPD
20	6

20

15

Diesel Range Organics (Over C10-C28)	<49.9	U	999	833.5	mg/Kg	81	70 - 130
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane			70 - 130				
o-Terphenyl	95		70 - 130				

Lab Sample ID: MB 880-24335/1-A Matrix: Solid										C	lient S	ample ID: Prep	Method Type: S	
Analysis Batch: 24519	мв	МВ												
Analyte		Qualifier		RL		MDL	Unit		D	Pre	pared	Analyz	ed	Dil Fac
Chloride	<5.00			5.00			mg/Kg					04/29/22		1
- Lab Sample ID: LCS 880-24335/2-A									Clie	nt S	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 24519														
-			Spike		LCS	LCS						%Rec		
Analyte			Added		Result	Qual	ifier	Unit	[D	%Rec	Limits		
Chloride			250		254.3			mg/Kg			102	90 - 110		
Lab Sample ID: LCSD 880-24335/3-A								Cli	ent Sa	amp	le ID: I	Lab Contro	I Samp	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 24519														
			Spike		LCSD	LCS	D					%Rec		RPD
Analyte			Added		Result	Qual	ifier	Unit	I	D	%Rec	Limits	RPD	Limit
Chloride			250		254.1			mg/Kg			102	90 _ 110	0	20

Client: Ensolum

Job ID: 890-2240-1 SDG: 03A1987012

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2240-7 MS									Client San	nple ID:	SW01
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 24519											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	75.9		250	316.7		mg/Kg		96	90 - 110		
Lab Sample ID: 890-2240-7 MSD									Client San	nple ID:	SW01
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 24519											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	75.9		250	316.2		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-9H

Job ID: 890-2240-1 SDG: 03A1987012

GC VOA

Prep Batch: 24822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2240-1	FS01	Total/NA	Solid	5035	
890-2240-2	FS02	Total/NA	Solid	5035	
890-2240-3	FS03	Total/NA	Solid	5035	
890-2240-4	FS04	Total/NA	Solid	5035	
390-2240-5	FS05	Total/NA	Solid	5035	
390-2240-6	FS06	Total/NA	Solid	5035	
390-2240-7	SW01	Total/NA	Solid	5035	
MB 880-24822/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-24822/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-24822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-14385-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
380-14385-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 24865

890-2240-7	SWUT	Total/INA	Solid	5035		
MB 880-24822/5-A	Method Blank	Total/NA	Solid	5035	8	3
LCS 880-24822/1-A	Lab Control Sample	Total/NA	Solid	5035	_	
LCSD 880-24822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	9	9
880-14385-A-1-E MS	Matrix Spike	Total/NA	Solid	5035		
880-14385-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		0
Prep Batch: 24865						
						1
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
Lab Sample ID 890-2240-8	Client Sample ID SW02	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch	2
		· · ·			Prep Batch	2
890-2240-8	SW02	Total/NA	Solid	5035	Prep Batch	2
890-2240-8 MB 880-24865/5-A	SW02 Method Blank	Total/NA Total/NA	Solid Solid	5035 5035	Prep Batch	2 3
890-2240-8 MB 880-24865/5-A LCS 880-24865/1-A	SW02 Method Blank Lab Control Sample	Total/NA Total/NA Total/NA	Solid Solid Solid	5035 5035 5035	Prep Batch	2 3
890-2240-8 MB 880-24865/5-A LCS 880-24865/1-A LCSD 880-24865/2-A	SW02 Method Blank Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	5035 5035 5035 5035 5035	Prep Batch 1	2 3 4

Analysis Batch: 24907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2240-1	FS01	Total/NA	Solid	8021B	24822
890-2240-2	FS02	Total/NA	Solid	8021B	24822
890-2240-3	FS03	Total/NA	Solid	8021B	24822
890-2240-4	FS04	Total/NA	Solid	8021B	24822
890-2240-5	FS05	Total/NA	Solid	8021B	24822
890-2240-6	FS06	Total/NA	Solid	8021B	24822
890-2240-7	SW01	Total/NA	Solid	8021B	24822
890-2240-8	SW02	Total/NA	Solid	8021B	24865
MB 880-24822/5-A	Method Blank	Total/NA	Solid	8021B	24822
MB 880-24865/5-A	Method Blank	Total/NA	Solid	8021B	24865
LCS 880-24822/1-A	Lab Control Sample	Total/NA	Solid	8021B	24822
LCS 880-24865/1-A	Lab Control Sample	Total/NA	Solid	8021B	24865
LCSD 880-24822/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24822
LCSD 880-24865/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24865
880-14385-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	24822
880-14385-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24822
880-14421-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	24865
880-14421-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24865

Analysis Batch: 24984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2240-1	FS01	Total/NA	Solid	Total BTEX	
890-2240-2	FS02	Total/NA	Solid	Total BTEX	
890-2240-3	FS03	Total/NA	Solid	Total BTEX	
890-2240-4	FS04	Total/NA	Solid	Total BTEX	
890-2240-5	FS05	Total/NA	Solid	Total BTEX	
890-2240-6	FS06	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-9H

GC VOA (Continued)

Analysis Batch: 24984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2240-7	SW01	Total/NA	Solid	Total BTEX	
890-2240-8	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2240-1	FS01	Total/NA	Solid	8015NM Prep	
890-2240-2	FS02	Total/NA	Solid	8015NM Prep	
890-2240-3	FS03	Total/NA	Solid	8015NM Prep	
890-2240-4	FS04	Total/NA	Solid	8015NM Prep	
890-2240-5	FS05	Total/NA	Solid	8015NM Prep	
890-2240-6	FS06	Total/NA	Solid	8015NM Prep	
890-2240-7	SW01	Total/NA	Solid	8015NM Prep	
890-2240-8	SW02	Total/NA	Solid	8015NM Prep	
MB 880-24356/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24356/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2237-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2237-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24366

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2240-1	FS01	Total/NA	Solid	8015B NM	24356
890-2240-2	FS02	Total/NA	Solid	8015B NM	24356
890-2240-3	FS03	Total/NA	Solid	8015B NM	24356
890-2240-4	FS04	Total/NA	Solid	8015B NM	24356
890-2240-5	FS05	Total/NA	Solid	8015B NM	24356
890-2240-6	FS06	Total/NA	Solid	8015B NM	24356
890-2240-7	SW01	Total/NA	Solid	8015B NM	24356
890-2240-8	SW02	Total/NA	Solid	8015B NM	24356
MB 880-24356/1-A	Method Blank	Total/NA	Solid	8015B NM	24356
LCS 880-24356/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24356
LCSD 880-24356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24356
890-2237-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	24356
890-2237-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24356

Analysis Batch: 24541

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2240-1	FS01	Total/NA	Solid	8015 NM	
890-2240-2	FS02	Total/NA	Solid	8015 NM	
890-2240-3	FS03	Total/NA	Solid	8015 NM	
890-2240-4	FS04	Total/NA	Solid	8015 NM	
890-2240-5	FS05	Total/NA	Solid	8015 NM	
890-2240-6	FS06	Total/NA	Solid	8015 NM	
890-2240-7	SW01	Total/NA	Solid	8015 NM	
890-2240-8	SW02	Total/NA	Solid	8015 NM	

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Job ID: 890-2240-1 SDG: 03A1987012

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-9H Page 50 of 314

Job ID: 890-2240-1 SDG: 03A1987012

HPLC/IC

Leach Batch: 24335

each Batch: 24335					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2240-1	FS01	Soluble	Solid	DI Leach	
890-2240-2	FS02	Soluble	Solid	DI Leach	
890-2240-3	FS03	Soluble	Solid	DI Leach	
890-2240-4	FS04	Soluble	Solid	DI Leach	
890-2240-5	FS05	Soluble	Solid	DI Leach	
890-2240-6	FS06	Soluble	Solid	DI Leach	
890-2240-7	SW01	Soluble	Solid	DI Leach	
890-2240-8	SW02	Soluble	Solid	DI Leach	
MB 880-24335/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2240-7 MS	SW01	Soluble	Solid	DI Leach	
890-2240-7 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 24519

890-2240-7	SVVUT	Soluble	Solid	DI Leach		
890-2240-8	SW02	Soluble	Solid	DI Leach		8
MB 880-24335/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	DI Leach		9
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-2240-7 MS	SW01	Soluble	Solid	DI Leach		
890-2240-7 MSD	SW01	Soluble	Solid	DI Leach		
Analysis Batch: 24519						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2240-1	FS01	Soluble	Solid	300.0	24335	
890-2240-2	FS02	Soluble	Solid	300.0	24335	49
890-2240-3	FS03	Soluble	Solid	300.0	24335	13
890-2240-4	FS04	Soluble	Solid	300.0	24335	
890-2240-5	FS05	Soluble	Solid	300.0	24335	
890-2240-6	FS06	Soluble	Solid	300.0	24335	
890-2240-7	SW01	Soluble	Solid	300.0	24335	
890-2240-8	SW02	Soluble	Solid	300.0	24335	
MB 880-24335/1-A	Method Blank	Soluble	Solid	300.0	24335	
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	300.0	24335	
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24335	
890-2240-7 MS	SW01	Soluble	Solid	300.0	24335	
890-2240-7 MSD	SW01	Soluble	Solid	300.0	24335	
-						

5

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Job ID: 890-2240-1 SDG: 03A1987012

Lab Sample ID: 890-2240-1 Matrix: Solid

Date Collected: 04/22/22 08:45 Date Received: 04/26/22 10:47

Client Sample ID: FS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24822	05/04/22 12:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 11:08	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 23:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 15:04	SC	XEN MID

Client Sample ID: FS02

Date Collected: 04/22/22 09:10

Date Received: 04/26/22 10:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	24822	05/04/22 12:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 11:29	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/29/22 00:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 15:30	SC	XEN MID

Client Sample ID: FS03

Date Collected: 04/22/22 09:45

Date Received: 04/26/22 10:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24822	05/04/22 12:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 11:49	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/29/22 00:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 15:39	SC	XEN MID

Client Sample ID: FS04 Date Collected: 04/22/22 09:55 Date Received: 04/26/22 10:47

	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	24822	05/04/22 12:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 12:09	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

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Lab Sample ID: 890-2240-2 Matrix: Solid

Lab Sample ID: 890-2240-3

Lab Sample ID: 890-2240-4

Matrix: Solid

Job ID: 890-2240-1 SDG: 03A1987012

Lab Sample ID: 890-2240-4 Matrix: Solid

Lab Sample ID: 890-2240-5

Lab Sample ID: 890-2240-6

Lab Sample ID: 890-2240-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 04/22/22 09:55 Date Received: 04/26/22 10:47

Client Sample ID: FS04

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/29/22 01:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 15:48	SC	XEN MID

Client Sample ID: FS05 Date Collected: 04/22/22 10:30

Date Received: 04/26/22 10:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24822	05/04/22 12:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 12:30	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/29/22 01:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 15:57	SC	XEN MID

Client Sample ID: FS06

Date Collected: 04/22/22 10:45 Date Received: 04/26/22 10:47

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 24822 05/04/22 12:43 MR XEN MID Total/NA 8021B 5 mL 5 mL 24907 05/06/22 12:50 XEN MID Analysis AJ 1 Total/NA Total BTEX Analysis 1 24984 05/06/22 12:58 AJ XEN MID 04/29/22 16:37 Total/NA Analysis 8015 NM 24541 AJ XEN MID 1 Total/NA Prep 8015NM Prep 10.03 g 10 mL 24356 04/27/22 16:45 DM XEN MID Total/NA Analysis 8015B NM 24366 04/29/22 02:00 A.I XEN MID 1 Soluble Leach DI Leach 4.97 g 50 mL 24335 04/29/22 10:53 SC XEN MID Soluble Analysis 300.0 24519 04/29/22 16:06 sc XEN MID 1

Client Sample ID: SW01

Date Collected: 04/22/22 10:15 Date Received: 04/26/22 10:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24822	05/04/22 12:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 13:11	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/29/22 02:20	AJ	XEN MID

Eurofins Carlsbad

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Released to Imaging: 5/23/2023 8:29:46 AM

Lab Chronicle

Job ID: 890-2240-1 SDG: 03A1987012

Lab Sample ID: 890-2240-7

Lab Sample ID: 890-2240-8

Client Sample ID: SW01 Date Collected: 04/22/22 10:15 Date Received: 04/26/22 10:47

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 16:15	SC	XEN MID

Client Sample ID: SW02

Date Collected: 04/22/22 10:55 Date Received: 04/26/22 10:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24865	05/05/22 09:49	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24907	05/06/22 00:55	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			24984	05/06/22 12:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24541	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/29/22 02:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 16:41	SC	XEN MID

Laboratory References:

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

Matrix: Solid

Matrix: Solid

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Accreditation/Certification Summary

Client: Ensolum Project/Site: North Brushy Draw 35-9H

Laboratory: Eurofins Midland

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

The following analytes are included in this report the agency does not offer certification.		rogram	Identification Number	Expiration Date	
		IELAP	T104704400-21-22	06-30-22	
		out the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which	
0,		Matrix	Analyte		
Analysis Method	fer certification. Prep Method	Matrix	Analyte		
0,		Matrix Solid Solid	Analyte Total TPH Total BTEX		

Job ID: 890-2240-1 SDG: 03A1987012

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Job ID: 890-2240-1 SDG: 03A1987012

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID
SW846 = '	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Ma 'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure		
Laboratory Re)	

Protocol References:

Laboratory References:

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Sample Summary

Job ID: 890-2240-1
SDG: 03A1987012

						- 3
ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	_
0-2240-1	FS01	Solid	04/22/22 08:45	04/26/22 10:47	4	
0-2240-2	FS02	Solid	04/22/22 09:10	04/26/22 10:47	4	
0-2240-3	FS03	Solid	04/22/22 09:45	04/26/22 10:47	2 - 4	. 5
0-2240-4	FS04	Solid	04/22/22 09:55	04/26/22 10:47		
0-2240-5	FS05	Solid	04/22/22 10:30	04/26/22 10:47	2	
0-2240-6	FS06	Solid	04/22/22 10:45	04/26/22 10:47	2	
90-2240-7 90-2240-8	SW01 SW02	Solid Solid	04/22/22 10:15 04/22/22 10:55	04/26/22 10:47 04/26/22 10:47	0 - 4	
						1
						-

r No:	Work Order Comments RRC Superfund Level III PST/UST TRRP Level IV Level III PST/UST TRRP Level IV ADaPT Other: Level IV Inc. ADaPT Other: DI Water: H ₂ O Inc. None: NO DI Water: H ₂ O No Inc. None: NO DI Water: H ₂ O Inc. Inc. NaHSO.4: NABIS NaOH: Na NaOH: Na Inc. NaHSO.4: NABIS NaOH: Na Inc. Inc. NaHSO.4: NABIS NaOH: Na NaOH: Na Inc. NaHSO.4: NABIS NaOH: Na Inc. Inc. NaHSO.4: NABIS NaOH: Na Inc. Inc. NaOH+Ascorbic Acid: SAPC Sample Comments Inc. Inc. N. P.YN 2x520(In S.4: TPC Inc. Inc. Inc. Inc.	Na Sr TI Sn U V Zn 245.1 / 7470 / 7471 pnature) Date/Time MentedDate 00/25/2020 Rev. 2020 2
Work Order No:	rogram: UST/PST [ritate of Project: reporting: Level II [] Deliverables: EDD []	li K Se Ag SiO ₂ Hg: 1631 / Hg: 1631 / Received by: (Sic
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	Tim Raley Carlsback with Area Carlsback with Area	* 1 1 * 1 1
Houston, TX (Midland, TX (433 EL Paso, TX (91 Hobbs, NM (55	Bill to: (if different Company Name: Address: City, State ZIP: City, State ZIP: City, State ZIP: Rush Anound Anound <	は (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Curofins Environment Testing Xenco	Project Manager: Anna Byers Company Name: Ensolum Address: 3122 Noth crod Parks Hwy City, State ZIP: Carls bad, NM 892.24 Ensit: Carls bad, NM 892.24 Project Name: S3 5-280 - 675 4 Ensit: Project Number: Project Name: Number: Sampler's Name: Gilbeert Wrorthun, NM Sampler's Name: Gilbeert Wrorthun, NM Sampler's Name: Gilbeert Wrorthun, NM Sampler's Sampler's Sampler's Name: Gilbeert Wrorthun, NM Sampler's Sampler's Sampler's Sampler's Name: Gilbeert Wrorthun, NM Sampler's	200.7 / 6010 200.8 / 6020: 8RCR ethod(s) and Metal(s) to be analyzed ethod(s) and Metal(s) to be analyzed and relinquistiment of samples constitutes a valid from xenco will be linquistiment of samples and shill no assur- no Aminimum charge of 385.00 will be applied to each project and a unished by: (Signature) Received by: (

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Job Number: 890-2240-1 SDG Number: 03A1987012

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2240 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

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

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Job Number: 890-2240-1 SDG Number: 03A1987012

List Source: Eurofins Midland

List Creation: 04/27/22 10:53 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2240 List Number: 2 Creator: Teel, Brianna

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

Received by OCD: 1/25/2023 12:00:26 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2241-1

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: North Brushy Draw 35-2H Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

RAMER

Authorized for release by: 5/10/2022 3:56:38 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

Released to Imaging: 5/23/2023 8:29:46 AM

Laboratory Job ID: 890-2241-1 SDG: 03A1987005

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Client: Ensolum Project/Site: North Brushy Draw 35-2H

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3

5 6 7

Job ID: 890-2241-1 SDG: 03A1987005

SDG. 05A190700	55
3	
Qualifier Description	
MS and/or MSD recovery exceeds control limits.	_
MS/MSD RPD exceeds control limits	
Surrogate recovery exceeds control limits, high biased.	
Indicates the analyte was analyzed for but not detected.	
OA CONTRACTOR	
Qualifier Description	
Indicates the analyte was analyzed for but not detected.	_
Qualifier Description	
Indicates the analyte was analyzed for but not detected.	—
	_
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	_
Percent Recovery	
Contains Free Liquid	
Colony Forming Unit	
Contains No Free Liquid	
Duplicate Error Ratio (normalized absolute difference)	
Dilution Factor	
Detection Limit (DoD/DOE)	
5	Qualifier Description MS and/or MSD recovery exceeds control limits. MS/MSD RPD exceeds control limits Surrogate recovery exceeds control limits. Indicates the analyte was analyzed for but not detected. Qualifier Description Indicates the analyte was analyzed for but not detected. Qualifier Description Indicates the analyte was analyzed for but not detected. Qualifier Description Indicates the analyte was analyzed for but not detected. Qualifier Description Indicates the analyte was analyzed for but not detected. Description Indicates the analyte was analyzed for but not detected. Contains Free Liquid Contains Free Liquid Colony Forming Unit Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor

DL, RA, RE, INIndicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleDLCDecision Level Concentration (Radiochemistry)

 DLC
 Decision Level Concentration (Rac

 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)

NEGNegative / AbsentPOSPositive / 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

Job ID: 890-2241-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2241-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 5/9/2022. The report (revision 1) is being revised due to: Per client email, corrected project name to North Brushy Draw 35-2H.

Receipt

The samples were received on 4/26/2022 10:48 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 was 0.8° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: FS01 (890-2241-1), FS02 (890-2241-2), FS03 (890-2241-3), FS04 (890-2241-4), FS05 (890-2241-5), FS06 (890-2241-6), FS07 (890-2241-7), FS08 (890-2241-8), FS09 (890-2241-9), FS10 (890-2241-10), FS11 (890-2241-11), FS12 (890-2241-12), FS13 (890-2241-13), FS14 (890-2241-14), DNU-CLIENT DELETE (890-2241-15) and SW02 (890-2241-16).

Sample SW01 4-25-2022 9:30 0-3 This sample was never received- after calling the client (Anna Byers) she asked if we can delete sample from login and she will resample and bring it in on a new COC.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24987 and analytical batch 880-24939 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-24955/20). 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 analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

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

Organic Prep

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

VOA Prep

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

Client Sample Results

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

Limits

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U F2 F1

<0.00200 UF1

<0.00200 UF1

<0.00400 UF1

<0.00200 UF1

<0.00400 UF1

%Recovery Qualifier

Client Sample ID: FS01 Date Collected: 04/22/22 14:30 Date Received: 04/26/22 10:48 Sample Depth: 3

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab	Sample

D

Prepared

Prepared

05/04/22 12:55 05/06/22 14:28

05/04/22 12:55 05/06/22 14:28

05/04/22 12:55 05/06/22 14:28

05/04/22 12:55 05/06/22 14:28

05/04/22 12:55 05/06/22 14:28

05/04/22 12:55 05/06/22 14:28

e ID: 890-2241-1 Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

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4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				05/04/22 12:55	05/06/22 14:28	1
1,4-Difluorobenzene (Surr)	76		70 - 130				05/04/22 12:55	05/06/22 14:28	1
- Method: Total BTEX - Total BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (0	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
- Method: 8015B NM - Diesel Ra	nge Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 22:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/29/22 14:07	05/01/22 22:26	1
o-Terphenyl	98		70 - 130				04/29/22 14:07	05/01/22 22:26	1
Method: 300.0 - Anions, Ion Cl	nromatogra	iphy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4750		49.8		mg/Kg		,	05/03/22 17:15	10
Client Sample ID: FS02							Lab Samp	le ID: 890-2	241-2
Date Collected: 04/22/22 14:35 Date Received: 04/26/22 10:48 Sample Depth: 3									: Solid

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:55	05/06/22 14:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:55	05/06/22 14:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:55	05/06/22 14:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/04/22 12:55	05/06/22 14:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/04/22 12:55	05/06/22 14:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/04/22 12:55	05/06/22 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				05/04/22 12:55	05/06/22 14:54	1

Eurofins Carlsbad

Job ID: 890-2241-1 SDG: 03A1987005

Analyzed

Analyzed

Job ID: 890-2241-1 SDG: 03A1987005

Matrix: Solid

Lab Sample ID: 890-2241-2

05/02/22 09:24

Client Sample ID: FS02

Client: Ensolum

Total TPH

Date	Collected:	04/22/22	14:35
Date	Received:	04/26/22	10:48
Sam	ple Depth:	3	

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

Surrogate 1,4-Difluorobenzene (Surr)	%Recovery 84	Qualifier	Limits 70 - 130				Prepared 05/04/22 12:55	Analyzed 05/06/22 14:54	Dil Fac
Method: Total BTEX - Tota	al BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diese	l Range Organic	s (DRO) (0	C)						
Analyte	•••	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

50.0

mg/Kg

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

Analyte	Result	Qualifier	RL	MDL Uni	it D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg	/Kg	04/29/22 14:07	05/01/22 23:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/	/Kg	04/29/22 14:07	05/01/22 23:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/	/Kg	04/29/22 14:07	05/01/22 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			04/29/22 14:07	05/01/22 23:30	1
o-Terphenyl	108		70 - 130			04/29/22 14:07	05/01/22 23:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

<50.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	611		4.95		mg/Kg			05/03/22 17:21	1
Client Sample ID: FS03							Lab Samp	le ID: 890-2	241-3

Date Collected: 04/22/22 14:40 Date Received: 04/26/22 10:48 Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Benzene <0.00202 U 0.00202 mg/Kg 05/04/22 12:55 05/06/22 15:19 1 Toluene <0.00202 U 0.00202 mg/Kg 05/04/22 12:55 05/06/22 15:19 1 Ethylbenzene <0.00202 U 0.00202 mg/Kg 05/04/22 12:55 05/06/22 15:19 1 m-Xylene & p-Xylene <0.00404 U 0.00404 mg/Kg 05/04/22 12:55 05/06/22 15:19 1 o-Xylene <0.00202 U 0.00202 mg/Kg 05/04/22 12:55 05/06/22 15:19 1 Xylenes, Total 0.00404 <0.00404 U mg/Kg 05/04/22 12:55 05/06/22 15:19 1 Surrogate %Recovery Qualifier Limits Prepared Analvzed Dil Fac 174 S1+ 70 - 130 05/04/22 12:55 05/06/22 15:19 4-Bromofluorobenzene (Surr) 1 1,4-Difluorobenzene (Surr) 85 70 - 130 05/04/22 12:55 05/06/22 15:19 1 Method: Total BTEX - Total BTEX Calculation Analvte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00404 U 0.00404 mg/Kg 05/06/22 18:30 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 05/02/22 09:24 1

Eurofins Carlsbad

2241-1 187005

1

5

Matrix: Solid

Client Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: FS03

Date Collected: 04/22/22 14:40 Date Received: 04/26/22 10:48

Sample Depth: 3 - 4

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 23:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 23:51	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/01/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/29/22 14:07	05/01/22 23:51	1
o-Terphenyl	104		70 - 130				04/29/22 14:07	05/01/22 23:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	673		5.00		mg/Kg			05/03/22 17:28	1

Client Sample ID: FS04

Date Collected: 04/22/22 13:20 Date Received: 04/26/22 10:48 Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202		mg/Kg		05/04/22 12:55	05/06/22 15:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/04/22 12:55	05/06/22 15:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/04/22 12:55	05/06/22 15:45	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403		mg/Kg		05/04/22 12:55	05/06/22 15:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/04/22 12:55	05/06/22 15:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/04/22 12:55	05/06/22 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				05/04/22 12:55	05/06/22 15:45	1
1,4-Difluorobenzene (Surr)	84		70 - 130				05/04/22 12:55	05/06/22 15:45	1
- Method: Total BTEX - Total B	FEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 00:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 00:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 00:11	1

 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 104
 70 - 130
 04/29/22 14:07
 05/02/22 00:11
 1

 108
 70 - 130
 04/29/22 14:07
 05/02/22 00:11
 1

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Job ID: 890-2241-1 SDG: 03A1987005

Lab Sample ID: 890-2241-3

Lab Sample ID: 890-2241-4

Matrix: Solid

Matrix: Solid

Released to Imaging: 5/23/2023 8:29:46 AM

1-Chlorooctane

o-Terphenyl

		Client	Sample I	Result	ts				
Client: Ensolum Project/Site: North Brushy Draw 3	35-2H		-					Job ID: 890- SDG: 03A1	
Client Sample ID: FS04 Date Collected: 04/22/22 13:20 Date Received: 04/26/22 10:48 Sample Depth: 4							Lab Samp	le ID: 890-2 Matrix	241-4 :: Solid
Method: 300.0 - Anions, Ion C Analyte	• • •	phy - Solu Qualifier	<mark>ıble</mark> RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		4.99		mg/Kg			05/03/22 17:34	1
Client Sample ID: FS05 Date Collected: 04/22/22 13:25 Date Received: 04/26/22 10:48 Sample Depth: 4							Lab Samp	le ID: 890-2 Matrix	241-5 :: Solid
Method: 8021B - Volatile Orga	nic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/04/22 12:55	05/06/22 16:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/04/22 12:55	05/06/22 16:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/04/22 12:55	05/06/22 16:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/04/22 12:55	05/06/22 16:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/04/22 12:55	05/06/22 16:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/04/22 12:55	05/06/22 16:11	1
Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				05/04/22 12:55		1
1,4-Difluorobenzene (Surr)	85		70 - 130				05/04/22 12:55	05/06/22 16:11	1
 Method: Total BTEX - Total B1	FEX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/06/22 18:30	1
_ Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) ((C)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0						· · · · · · · · · · · · · · · · · · ·		
	\$30.0	0	50.0		mg/Kg			05/02/22 09:24	1
- - Mathada 0045D NM - Discal D					mg/Kg			05/02/22 09:24	1
 Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)	MDI			Propared		
Analyte	<mark>ange Organ</mark> Result	<mark>ics (DRO)</mark> Qualifier	(GC) RL	MDL	Unit	D	Prepared 04/29/22 14:07	Analyzed	1 Dil Fac
	ange Organ	<mark>ics (DRO)</mark> Qualifier	(GC)	MDL		D	Prepared 04/29/22 14:07	Analyzed	Dil Fac
Analyte Gasoline Range Organics	<mark>ange Organ</mark> Result	ics (DRO) Qualifier U	(GC) RL	MDL	Unit	D	04/29/22 14:07	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ange Organ Result <50.0	ics (DRO) Qualifier U	(GC) 	MDL	Unit mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07	Analyzed 05/02/22 00:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ange Organ Result <50.0 <50.0	ics (DRO) Qualifier U U	(GC) <u>RL</u> 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07	Analyzed 05/02/22 00:31 05/02/22 00:31	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ange Organ Result <50.0 <50.0 <50.0	ics (DRO) Qualifier U U	(GC) <u>RL</u> 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared	Analyzed 05/02/22 00:31 05/02/22 00:31 05/02/22 00:31	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ange Organ <u>Result</u> <50.0 <50.0 <50.0 %Recovery	ics (DRO) Qualifier U U	(GC) <u>RL</u> 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	D	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared 04/29/22 14:07	Analyzed 05/02/22 00:31 05/02/22 00:31 05/02/22 00:31 Analyzed	Dil Fac 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ange Organ Result <50.0 <50.0 <50.0 %Recovery 105 108	ics (DRO) Qualifier U U U Qualifier	(GC) <u>RL</u> 50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared 04/29/22 14:07	Analyzed 05/02/22 00:31 05/02/22 00:31 05/02/22 00:31 Analyzed 05/02/22 00:31	Dil Fac 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ange Organ <u>Result</u> <50.0 <50.0 <50.0 <u>%Recovery</u> 105 108 Chromatogra	ics (DRO) Qualifier U U U Qualifier	(GC) <u>RL</u> 50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	D	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared 04/29/22 14:07	Analyzed 05/02/22 00:31 05/02/22 00:31 05/02/22 00:31 Analyzed 05/02/22 00:31	Dil Fac 1 1 1 1 1 1 1 1 1 1 1

Client Sample Results

RL

0.00200

0.00200

MDL Unit

mg/Kg

mg/Kg

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

Client Sample ID: FS06 Date Collected: 04/25/22 09:50 Date Received: 04/26/22 10:48 Sample Depth: 3

Analyte

Benzene

Toluene

Job ID: 890-2241-1
SDG: 03A1987005

Lab Sample ID: 890-2241-6

Analyzed

Prepared

05/06/22 13:02 05/07/22 01:06

05/06/22 13:02 05/07/22 01:06

D

Matrix: Solid

Ethylbenzene			0.00000						
	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 01:06	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/22 13:02	05/07/22 01:06	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 01:06	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/22 13:02	05/07/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130				05/06/22 13:02	05/07/22 01:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/06/22 13:02	05/07/22 01:06	ŕ
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel R	ango Organ	ice (DRO)	(60)						
	• •								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0		RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/29/22 14:07		Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u>D</u>	04/29/22 14:07		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	04/29/22 14:07	05/02/22 00:51 05/02/22 00:51	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	บ บ บ	50.0	MDL	mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07	05/02/22 00:51 05/02/22 00:51	· · ·
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0	บ บ บ	50.0 50.0 50.0	MDL	mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared	05/02/22 00:51 05/02/22 00:51 05/02/22 00:51	
Gasoline Range Organics	<50.0 <50.0 <50.0 %Recovery	บ บ บ	50.0 50.0 50.0 Limits	MDL	mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared 04/29/22 14:07	05/02/22 00:51 05/02/22 00:51 05/02/22 00:51 Analyzed	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery 113 117	U U Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	MDL	mg/Kg mg/Kg	<u>D</u>	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared 04/29/22 14:07	05/02/22 00:51 05/02/22 00:51 05/02/22 00:51 Analyzed 05/02/22 00:51	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <u>%Recovery</u> 113 117 Chromatogra	U U Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/Kg mg/Kg	D	04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 04/29/22 14:07 Prepared 04/29/22 14:07	05/02/22 00:51 05/02/22 00:51 05/02/22 00:51 Analyzed 05/02/22 00:51	Dil Fac

Sample Depth: 3

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Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/22 13:02	05/07/22 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/22 13:02	05/07/22 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				05/06/22 13:02	05/07/22 02:28	1

Job ID: 890-2241-1 SDG: 03A1987005

Matrix: Solid

Lab Sample ID: 890-2241-7

Lab Sample ID: 890-2241-8

Matrix: Solid

Client Sample ID: FS07 Date Collected: 04/25/22 09:55

Client: Ensolum

Date Conected: 04/25/22 09:55 Date Received: 04/26/22 10:48 Sample Depth: 3

Method: 8021B	- Volatile Organic	Compounds	(GC)	(Continued)
	- Volutile Organie	oompounds	$(\mathbf{c}\mathbf{c})$	(Continued)

Surrogate 1,4-Difluorobenzene (Surr)	%Recovery 91	Qualifier	Limits			Prepared 05/06/22 13:02	Analyzed 05/07/22 02:28	Dil Fac
Method: Total BTEX - Total BT	EX Calcula	tion						
Analyte	Result	Qualifier	RL	MDL U	Unit	D Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	n	mg/Kg		05/06/22 18:30	1

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			05/02/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 01:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 01:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/29/22 14:07	05/02/22 01:12	1
o-Terphenyl	104		70 - 130				04/29/22 14:07	05/02/22 01:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103	5.04	mg/Kg			05/03/22 18:06	1

Client Sample ID: FS08 Date Collected: 04/25/22 10:00

Date Received: 04/26/22 10:48 Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/22 13:02	05/07/22 02:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 02:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/22 13:02	05/07/22 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				05/06/22 13:02	05/07/22 02:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130				05/06/22 13:02	05/07/22 02:48	1
Method: Total BTEX - Tota	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Client Sample Results

Client Sample ID: FS08 Date Collected: 04/25/22 10:00 Date Received: 04/26/22 10:48

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 01:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 01:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/29/22 14:07	05/02/22 01:32	1
o-Terphenyl	103		70 - 130				04/29/22 14:07	05/02/22 01:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.99		mg/Kg			05/03/22 18:12	1

Client Sample ID: FS09

Date Collected: 04/25/22 10:45 Date Received: 04/26/22 10:48 Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/22 13:02	05/07/22 03:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/22 13:02	05/07/22 03:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/22 13:02	05/07/22 03:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/22 13:02	05/07/22 03:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/22 13:02	05/07/22 03:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/22 13:02	05/07/22 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				05/06/22 13:02	05/07/22 03:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/06/22 13:02	05/07/22 03:08	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result <0.00398	Qualifier	0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/06/22 18:30	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00398	Qualifier	0.00398	MDL	mg/Kg	D 	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00398	Qualifier U s (DRO) (Q Qualifier	0.00398		mg/Kg	=	<u>.</u>	05/06/22 18:30	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00398 nge Organic Result <50.0	Qualifier U s (DRO) (C Qualifier U	0.00398 GC) RL 50.0		mg/Kg Unit	=	<u>.</u>	05/06/22 18:30 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte	Result <0.00398 nge Organic Result <50.0 cange Organ	Qualifier U s (DRO) (C Qualifier U	0.00398 GC) RL 50.0		mg/Kg Unit mg/Kg	=	<u>.</u>	05/06/22 18:30 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00398 nge Organic Result <50.0 cange Organ	Qualifier U s (DRO) (Q Qualifier U ics (DRO) Qualifier	0.00398 C) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/06/22 18:30 Analyzed 05/02/22 09:24	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00398 nge Organic Result <50.0 cange Organ Result	Qualifier U s (DRO) (Q Qualifier U ics (DRO) Qualifier U	0.00398 C) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	05/06/22 18:30 Analyzed 05/02/22 09:24 Analyzed	1 Dil Fac 1 Dil Fac

Job ID: 890-2241-1 SDG: 03A1987005

Lab Sample ID: 890-2241-8 Matrix: Solid

Lab Sample ID: 890-2241-9 Matrix: Solid

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		Client	Sample I	Result	ts			5	, e / 1 0j 0.
Client: Ensolum Project/Site: North Brushy Draw	35-2H		•					Job ID: 890- SDG: 03A1	
Client Sample ID: FS09 Date Collected: 04/25/22 10:45 Date Received: 04/26/22 10:48 Sample Depth: 3							Lab Samp	le ID: 890-2 Matrix	2 41-9 :: Solid
Method: 300.0 - Anions, Ion C Analyte		phy - Solu Qualifier	uble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		4.97		mg/Kg			05/03/22 18:31	1
Client Sample ID: FS10 Date Collected: 04/25/22 10:50 Date Received: 04/26/22 10:48 Sample Depth: 3 - 4						L	ab Sample.	D: 890-22 Matrix	2 41-10 :: Solid
Method: 8021B - Volatile Orga	anic Compo	unds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/22 13:02	05/07/22 03:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/22 13:02	05/07/22 03:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/22 13:02	05/07/22 03:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/22 13:02	05/07/22 03:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/22 13:02	05/07/22 03:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/22 13:02	05/07/22 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				05/06/22 13:02	05/07/22 03:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/06/22 13:02	05/07/22 03:29	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 02:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/29/22 14:07	05/02/22 02:12	1
o-Terphenyl	111		70 - 130				04/29/22 14:07	05/02/22 02:12	1
Method: 300.0 - Anions, Ion C		· ·					_		- <i>w</i> -
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		5.00		mg/Kg			05/03/22 18:38	1

Client Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: FS11 Date Collected: 04/25/22 12:15 Date Received: 04/26/22 10:48 Sample Depth: 3

:	SDG: 03A1987005
Lab Sample I	D: 890-2241-11 Matrix: Solid

Job ID: 890-2241-1

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11 12 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 03:49	
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 03:49	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 03:49	
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		05/06/22 13:02	05/07/22 03:49	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 03:49	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/22 13:02	05/07/22 03:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130				05/06/22 13:02	05/07/22 03:49	
1,4-Difluorobenzene (Surr)	88		70 - 130				05/06/22 13:02	05/07/22 03:49	
Method: Total BTEX - Total B	FEX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/06/22 18:30	
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 02:53	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 02:53	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 02:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane	97		70 - 130				04/29/22 14:07	05/02/22 02:53	
o-Terphenyl	99		70 - 130				04/29/22 14:07	05/02/22 02:53	
Method: 300.0 - Anions, Ion C	-		ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Chloride	401		4.99		mg/Kg			05/03/22 18:44	
lient Sample ID: FS12						L	ab Sample	e ID: 890-22	41-1
ate Collected: 04/25/22 14:20 ate Received: 04/26/22 10:48 ample Depth: 4							-	Matrix	: Sol
· · ·									
Method: 8021B - Volatile Orga Analyte		unds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00200		0.00200		ma/Ka		05/06/22 13:02		

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		05/06/22 13:02	05/07/22 04:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/06/22 13:02	05/07/22 04:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/06/22 13:02	05/07/22 04:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/06/22 13:02	05/07/22 04:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/06/22 13:02	05/07/22 04:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/06/22 13:02	05/07/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			05/06/22 13:02	05/07/22 04:10	1
Job ID: 890-2241-1 SDG: 03A1987005

Matrix: Solid

Lab Sample ID: 890-2241-12

Client Sample ID: FS12

Client: Ensolum

Date Collected: 04/25/22 14:20
Date Received: 04/26/22 10:48
Sample Depth: 4

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

Method: 8021B - Volatile (· ·	. ,	````						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130				05/06/22 13:02	05/07/22 04:10	1
- Method: Total BTEX - Tota	al BTEX Calculat	ion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel	Range Organics	s (DRO) (O	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/29/22 14:07	05/02/22 03:13	1
o-Terphenyl	93		70 - 130				04/29/22 14:07	05/02/22 03:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier DI.

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	572		5.01		mg/Kg			05/03/22 18:50	1

Client Sample ID: FS13 Date Collected: 04/25/22 14:25 Date Received: 04/26/22 10:48

Lab Sample ID: 890-2241-13 Matrix: Solid

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/22 13:02	05/07/22 04:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/22 13:02	05/07/22 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	315	S1+	70 - 130				05/06/22 13:02	05/07/22 04:30	1
1,4-Difluorobenzene (Surr)	249	S1+	70 - 130				05/06/22 13:02	05/07/22 04:30	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/06/22 18:30	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	11	50.0		mg/Kg			05/02/22 09:24	1

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Client Sample Results

Client Sample ID: FS13 Date Collected: 04/25/22 14:25 Date Received: 04/26/22 10:48

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/29/22 14:07	05/02/22 03:33	1
o-Terphenyl	118		70 - 130				04/29/22 14:07	05/02/22 03:33	1

wethod: 300.0 - Amons, Ion C	nromatograpny - Solubi	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.7	4.97	mg/Kg			05/03/22 18:57	1

Client Sample ID: FS14 Date Collected: 04/25/22 14:15 Date Received: 04/26/22 10:48

Sample Depth: 3 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/06/22 13:02	05/07/22 04:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/07/22 04:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/06/22 13:02	05/07/22 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	299	S1+	70 - 130				05/06/22 13:02	05/07/22 04:51	1
1,4-Difluorobenzene (Surr)	231	S1+	70 - 130				05/06/22 13:02	05/07/22 04:51	1
_ Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/06/22 18:30	1
_ Method: 8015 NM - Diesel	Range Organic	s (DRO) ((GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 09:24	1
_ Method: 8015B NM - Diese	I Range Organ	ics (DRO)	(GC)						
Analyte	· · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 14:07	05/02/22 03:53	1

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg	04/29/22 14:07 04/29/22 14:07	1
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 119 123	Qualifier	Limits 70 - 130 70 - 130		Prepared 04/29/22 14:07 04/29/22 14:07	Dil Fac

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Job ID: 890-2241-1 SDG: 03A1987005

Lab Sample ID: 890-2241-13

Lab Sample ID: 890-2241-14

Matrix: Solid

Matrix: Solid

		Client	Sample I	Resul	ts				, , , , , , , , , , , , , , , , , , ,
Client: Ensolum Project/Site: North Brushy Draw	35-2H							Job ID: 890 SDG: 03A1	
Client Sample ID: FS14 Date Collected: 04/25/22 14:15 Date Received: 04/26/22 10:48 Sample Depth: 3 - 4						L	ab Sample.	D: 890-22 Matrix	241-14 c: Solid
Method: 300.0 - Anions, Ion C Analyte		phy - Solu Qualifier	I <mark>ble</mark> RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	559		4.95		mg/Kg			05/03/22 19:03	1
Client Sample ID: SW02 Date Collected: 04/25/22 12:45 Date Received: 04/26/22 10:48 Sample Depth: 0 - 4						L	ab Sample.	D: 890-22 Matrix	2 41-16 c: Solid
– Method: 8021B - Volatile Orga	anic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 05:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 05:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 05:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/22 13:02	05/07/22 05:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/22 13:02	05/07/22 05:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/22 13:02	05/07/22 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				05/06/22 13:02	05/07/22 05:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/06/22 13:02	05/07/22 05:11	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/06/22 18:30	1
_ Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 09:24	1
_ Method: 8015B NM - Diesel R	ango Organ		(60)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9		mg/Kg		04/29/22 14:07		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 04:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/29/22 14:07	05/02/22 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/29/22 14:07	05/02/22 04:13	1
o-Terphenyl	105		70 - 130				04/29/22 14:07	05/02/22 04:13	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		25.2		mg/Kg			05/03/22 19:09	5

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Surrogate Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

			P
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-14397-A-11-G MS	Matrix Spike	117	94
880-14397-A-11-H MSD	Matrix Spike Duplicate	114	94
890-2241-1	FS01	154 S1+	76
890-2241-1 MS	FS01	121	85
890-2241-1 MSD	FS01	137 S1+	78
890-2241-2	FS02	165 S1+	84
890-2241-3	FS03	174 S1+	85
890-2241-4	FS04	178 S1+	84
890-2241-5	FS05	168 S1+	85
890-2241-6	FS06	111	89
890-2241-7	FS07	116	91
890-2241-8	FS08	138 S1+	110
890-2241-9	FS09	116	90
890-2241-10	FS10	112	90
890-2241-11	FS11	111	88
890-2241-12	FS12	117	90
890-2241-13	FS13	315 S1+	249 S1+
890-2241-14	FS14	299 S1+	231 S1+
890-2241-16	SW02	113	89
LCS 880-24825/1-A	Lab Control Sample	169 S1+	90
LCS 880-24987/1-A	Lab Control Sample	108	94
LCSD 880-24825/2-A	Lab Control Sample Dup	164 S1+	89
LCSD 880-24987/2-A	Lab Control Sample Dup	114	95
MB 880-24825/5-A	Method Blank	146031	263 S1+
		S1+	
MB 880-24939/8	Method Blank	99	91
MB 880-24987/5-A	Method Blank	104	90
Surrogato Logond			

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

-			Perce
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2241-1	FS01	93	98
890-2241-1 MS	FS01	90	82
890-2241-1 MSD	FS01	92	83
890-2241-2	FS02	106	108
890-2241-3	FS03	102	104
890-2241-4	FS04	104	108
890-2241-5	FS05	105	108
890-2241-6	FS06	113	117
890-2241-7	FS07	102	104
890-2241-8	FS08	100	103
890-2241-9	FS09	98	101
890-2241-10	FS10	109	111
890-2241-11	FS11	97	99

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5 6

Prep Type: Total/NA

6

12 13

Client: Ensolum Job ID: 890-2241-1 Project/Site: North Brushy Draw 35-2H SDG: 03A1987005 Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) **Matrix: Solid** Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 Lab Sample ID **Client Sample ID** (70-130) (70-130) 890-2241-12 FS12 90 93 890-2241-13 FS13 117 118 FS14 890-2241-14 123 119

105

105

104

106

106

107

105

97

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MB 880-24524/1-A	Method Blank
Surrogate Legend	
1CO = 1-Chlorooctane	

SW02

Lab Control Sample

Lab Control Sample Dup

OTPH = o-Terphenyl

890-2241-16

LCS 880-24524/2-A

LCSD 880-24524/3-A

Released to Imaging: 5/23/2023 8:29:46 AM

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: MB 880-24825/5-A

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 24955								Prep Batch:	24825
-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.002348		0.00200		mg/Kg		05/04/22 12:55	05/06/22 14:02	1
Toluene	0.002776		0.00200		mg/Kg		05/04/22 12:55	05/06/22 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:55	05/06/22 14:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/04/22 12:55	05/06/22 14:02	1
o-Xylene	0.002063		0.00200		mg/Kg		05/04/22 12:55	05/06/22 14:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/04/22 12:55	05/06/22 14:02	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146031	S1+	70 - 130				05/04/22 12:55	05/06/22 14:02	1
1,4-Difluorobenzene (Surr)	263	S1+	70 - 130				05/04/22 12:55	05/06/22 14:02	1

Lab Sample ID: LCS 880-24825/1-A Matrix: Solid Analysis Batch: 24955

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1133		mg/Kg		113	70 - 130	
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1240		mg/Kg		124	70 - 130	
m-Xylene & p-Xylene	0.200	0.2510		mg/Kg		126	70 - 130	
o-Xylene	0.100	0.1212		mg/Kg		121	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-24825/2-A Matrix: Solid

Analysis Batch: 24955

Analysis Batch: 24955								Prep Batch: 24825		
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	4	35	
Toluene	0.100	0.1031		mg/Kg		103	70 - 130	3	35	
Ethylbenzene	0.100	0.1189		mg/Kg		119	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.2400		mg/Kg		120	70 - 130	4	35	
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130	3	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-2241-1 MS Matrix: Solid

	-		
Analy	/sis	Batch:	: 24955

Analysis Batch: 24955									Prep E	Batch: 24825
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.101	<0.00202	U F1	mg/Kg		0.6	70 - 130	
Toluene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	

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Client Sample ID: FS01

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 24825

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: 890-2241- Matrix: Solid Analysis Batch: 24955	1 MS							С	lient Sample ID: FS01 Prep Type: Total/NA Prep Batch: 24825
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U F1	0.101	0.05543	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.202	0.1173	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00200	U F1	0.101	0.05796	F1	mg/Kg		57	70 - 130
	MS	MS							

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-2241-1 MSD Matrix: Solid Analysis Batch: 24955

Analysis Batch: 24955									Prep Batch: 24825			
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00200	U F2 F1	0.101	0.05097	F2 F1	mg/Kg		51	70 - 130	195	35	
Toluene	<0.00200	U F1	0.101	0.05046	F1	mg/Kg		50	70 - 130	NC	35	Ē
Ethylbenzene	<0.00200	U F1	0.101	0.05264	F1	mg/Kg		52	70 - 130	5	35	
m-Xylene & p-Xylene	<0.00400	U F1	0.201	0.1084	F1	mg/Kg		54	70 - 130	8	35	÷.
o-Xylene	<0.00200	U F1	0.101	0.05612	F1	mg/Kg		56	70 - 130	3	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: MB 880-24939/8 Matrix: Solid Analysis Batch: 24939

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			05/06/22 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg			05/06/22 11:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			05/06/22 11:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			05/06/22 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			05/06/22 11:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			05/06/22 11:04	1
	МВ	МВ							

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

MR MR

Lab Sample ID: MB 880-24987/5-A Matrix: Solid Analysis Batch: 24939

	IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/06/22 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/06/22 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/06/22 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/22 13:02	05/06/22 21:40	1

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Job ID: 890-2241-1 SDG: 03A1987005

Client Sample ID: FS01

Prep Type: Total/NA

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

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 24987

Analyzed

05/06/22 11:04

05/06/22 11:04

Dil Fac

1

1

Prepared

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: MB 880-249 Matrix: Solid Analysis Batch: 24939	87/5-A							le ID: Methoo Prep Type: To Prep Batch:	otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/22 13:02	05/06/22 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/22 13:02	05/06/22 21:40	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/06/22 13:02	05/06/22 21:40	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/06/22 13:02	05/06/22 21:40	1

Lab Sample ID: LCS 880-24987/1-A Matrix: Solid Analysis Batch: 24939

Analysis Batch: 24939							Prep Batch: 24987	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07850		mg/Kg		79	70 - 130	
Toluene	0.100	0.08329		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08965		mg/Kg		90	70 - 130	Ē
m-Xylene & p-Xylene	0.200	0.1836		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09398		mg/Kg		94	70 - 130	2

	LCS		
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-24987/2-A Matrix: Solid Analysis Batch: 24939

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 24987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Baton. 24000									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07366		mg/Kg		74	70 - 130	6	35
Toluene	0.100	0.07878		mg/Kg		79	70 - 130	6	35
Ethylbenzene	0.100	0.08464		mg/Kg		85	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1736		mg/Kg		87	70 - 130	6	35
o-Xylene	0.100	0.09023		mg/Kg		90	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-14397-A-11-G MS Matrix: Solid

Analysis Batch: 24939									Prep I	Batch: 24987
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.100	0.03992	F1	mg/Kg		40	70 - 130	
Toluene	<0.00201	U F1	0.100	0.04472	F1	mg/Kg		45	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.04628	F1	mg/Kg		46	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.09946	F1	mg/Kg		50	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.05188	F1	mg/Kg		52	70 - 130	

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

5

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: 880-14397-A-11-G MS
Matrix: Solid
Analysis Batch: 24939

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

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

MB MB

<50.0 U

<50.0 U

Result Qualifier

Lab Sample ID: 880-14397-A-11-H MSD Matrix: Solid

Analysis Batch: 24939									Prep E	Batch: 2	24987
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00201	U F1 F2	0.0994	0.05892	F1 F2	mg/Kg		59	70 - 130	38	35
Toluene	<0.00201	U F1	0.0994	0.06378	F1	mg/Kg		64	70 - 130	35	35
Ethylbenzene	<0.00201	U F1 F2	0.0994	0.06872	F1 F2	mg/Kg		69	70 - 130	39	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1391		mg/Kg		70	70 - 130	33	35
o-Xylene	<0.00201	U F1	0.0994	0.07164		mg/Kg		72	70 - 130	32	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								
—											

RL

50.0

50.0

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

04/29/22 14:07 05/01/22 21:21

04/29/22 14:07 05/01/22 21:21

Client Sample ID: Lab Control Sample

Prep Batch: 24524

Prep Type: Total/NA

Dil Fac

1

1

Analyzed

<50.0	U	50.0	mg/Kg	04/29/22 14:07	05/01/22 21:21	1
MB	МВ					
%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
97		70 - 130		04/29/22 14:07	05/01/22 21:21	1
106		70 - 130		04/29/22 14:07	05/01/22 21:21	1

D

Prepared

MDL Unit

mg/Kg

mg/Kg

Lab Sample ID: LCS 880-24524/2-A Matrix: Solid

Lab Sample ID: MB 880-24524/1-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate 1-Chlorooctane o-Terphenyl

Analysis Batch: 24575

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analysis Batch: 24575							Prep I	Batch: 24524
-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1109		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1026		mg/Kg		103	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	105		70 - 130

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Job ID: 890-2241-1

SDG: 03A1987005

Prep Type: Total/NA Prep Batch: 24987

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: LCSD 880-24524/3-A

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

Lab Sample ID. LOOD 000-	24524/5-4					Sherit Gai	inpie	ID. Lat			
Matrix: Solid									Prep Ty		
Analysis Batch: 24575										Batch: 2	
			Spike	LCSD					%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1053		mg/Kg		105	70 - 130	5	20
(GRO)-C6-C10			1000	000.0				00	70 400	-	00
Diesel Range Organics (Over C10-C28)			1000	980.6		mg/Kg		98	70 - 130	5	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	104		70 - 130								
Lab Sample ID: 890-2241-1	MS							С	lient Sam	ple ID:	FS01
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 24575										Batch: 2	
	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	1012		mg/Kg		100	70 - 130		
Diesel Range Organics (Over	<50.0	U	1000	803.0		mg/Kg		80	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	82		70 - 130								
Lab Sample ID: 890-2241-1	MSD							С	lient Sam	ple ID:	FS01
Matrix: Solid									Prep Ty		
Analysis Batch: 24575									Prep E	Batch: 2	24524
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1051		mg/Kg		104	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	817.3		mg/Kg		82	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 (00								
	92		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24517/1-A Matrix: Solid Analysis Batch: 24668							Client Sam	ple ID: Methoo Prep Type: \$	
-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/03/22 15:59	1

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Client Sample ID: Lab Control Sample Dup

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880 Matrix: Solid	-24517/2-A					Clier	nt Sar	nple ID	: Lab Cor Prep T		
Analysis Batch: 24668			Omilia	1.00	1.00				0/ D = =		
America			Spike	-	LCS	11	D	0/ D = =	%Rec		
Analyte			Added		Qualifier	Unit		%Rec	Limits		
Chloride			250	228.4		mg/Kg		91	90 - 110		
Lab Sample ID: LCSD 88 Matrix: Solid	30-24517/3-A				C	Client Sa	mple	ID: Lat	Control Prep T		
Analysis Batch: 24668											
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	255.9		mg/Kg		102	90 - 110	11	20
Lab Sample ID: 890-224	1-6 MS							С	lient Sam	ple ID:	FS06
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 24668											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	72.1		250	334.2		mg/Kg		105	90 - 110		
Lab Sample ID: 890-224	1-6 MSD							С	lient Sam	ple ID:	FS06
Matrix: Solid										ype: Sc	
Analysis Batch: 24668											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	72.1		250	317.3		mg/Kg		98	90 - 110	5	20

Job ID: 890-2241-1

SDG: 03A1987005

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Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2241-1

SDG: 03A1987005

GC VOA

Prep Batch: 24825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-1	FS01	Total/NA	Solid	5035	
890-2241-2	FS02	Total/NA	Solid	5035	
890-2241-3	FS03	Total/NA	Solid	5035	
890-2241-4	FS04	Total/NA	Solid	5035	
890-2241-5	FS05	Total/NA	Solid	5035	
MB 880-24825/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24825/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24825/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2241-1 MS	FS01	Total/NA	Solid	5035	
890-2241-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 24939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-6	FS06	Total/NA	Solid	8021B	24987
890-2241-7	FS07	Total/NA	Solid	8021B	24987
890-2241-8	FS08	Total/NA	Solid	8021B	24987
890-2241-9	FS09	Total/NA	Solid	8021B	24987
890-2241-10	FS10	Total/NA	Solid	8021B	24987
890-2241-11	FS11	Total/NA	Solid	8021B	24987
890-2241-12	FS12	Total/NA	Solid	8021B	24987
890-2241-13	FS13	Total/NA	Solid	8021B	24987
890-2241-14	FS14	Total/NA	Solid	8021B	24987
890-2241-16	SW02	Total/NA	Solid	8021B	24987
MB 880-24939/8	Method Blank	Total/NA	Solid	8021B	
MB 880-24987/5-A	Method Blank	Total/NA	Solid	8021B	24987
LCS 880-24987/1-A	Lab Control Sample	Total/NA	Solid	8021B	24987
LCSD 880-24987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24987
880-14397-A-11-G MS	Matrix Spike	Total/NA	Solid	8021B	24987
880-14397-A-11-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24987

Analysis Batch: 24955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-1	FS01	Total/NA	Solid	8021B	24825
890-2241-2	FS02	Total/NA	Solid	8021B	24825
890-2241-3	FS03	Total/NA	Solid	8021B	24825
890-2241-4	FS04	Total/NA	Solid	8021B	24825
890-2241-5	FS05	Total/NA	Solid	8021B	24825
MB 880-24825/5-A	Method Blank	Total/NA	Solid	8021B	24825
LCS 880-24825/1-A	Lab Control Sample	Total/NA	Solid	8021B	24825
LCSD 880-24825/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24825
890-2241-1 MS	FS01	Total/NA	Solid	8021B	24825
890-2241-1 MSD	FS01	Total/NA	Solid	8021B	24825

Prep Batch: 24987

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2241-6	FS06	Total/NA	Solid	5035	
890-2241-7	FS07	Total/NA	Solid	5035	
890-2241-8	FS08	Total/NA	Solid	5035	
890-2241-9	FS09	Total/NA	Solid	5035	
890-2241-10	FS10	Total/NA	Solid	5035	
890-2241-11	FS11	Total/NA	Solid	5035	

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Client: Ensolum Project/Site: North Brushy Draw 35-2H

GC VOA (Continued)

Prep Batch: 24987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-12	FS12	Total/NA	Solid	5035	
890-2241-13	FS13	Total/NA	Solid	5035	
890-2241-14	FS14	Total/NA	Solid	5035	
890-2241-16	SW02	Total/NA	Solid	5035	
MB 880-24987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14397-A-11-G MS	Matrix Spike	Total/NA	Solid	5035	
880-14397-A-11-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2241-1	FS01	Total/NA	Solid	Total BTEX		
890-2241-2	FS02	Total/NA	Solid	Total BTEX		
890-2241-3	FS03	Total/NA	Solid	Total BTEX		
890-2241-4	FS04	Total/NA	Solid	Total BTEX		
890-2241-5	FS05	Total/NA	Solid	Total BTEX		
890-2241-6	FS06	Total/NA	Solid	Total BTEX		
890-2241-7	FS07	Total/NA	Solid	Total BTEX		
890-2241-8	FS08	Total/NA	Solid	Total BTEX		
890-2241-9	FS09	Total/NA	Solid	Total BTEX		
890-2241-10	FS10	Total/NA	Solid	Total BTEX		
890-2241-11	FS11	Total/NA	Solid	Total BTEX		
890-2241-12	FS12	Total/NA	Solid	Total BTEX		
890-2241-13	FS13	Total/NA	Solid	Total BTEX		
890-2241-14	FS14	Total/NA	Solid	Total BTEX		
890-2241-16	SW02	Total/NA	Solid	Total BTEX		

GC Semi VOA

Prep Batch: 24524

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2241-1	FS01	Total/NA	Solid	8015NM Prep	
890-2241-2	FS02	Total/NA	Solid	8015NM Prep	
890-2241-3	FS03	Total/NA	Solid	8015NM Prep	
890-2241-4	FS04	Total/NA	Solid	8015NM Prep	
890-2241-5	FS05	Total/NA	Solid	8015NM Prep	
890-2241-6	FS06	Total/NA	Solid	8015NM Prep	
890-2241-7	FS07	Total/NA	Solid	8015NM Prep	
890-2241-8	FS08	Total/NA	Solid	8015NM Prep	
890-2241-9	FS09	Total/NA	Solid	8015NM Prep	
890-2241-10	FS10	Total/NA	Solid	8015NM Prep	
890-2241-11	FS11	Total/NA	Solid	8015NM Prep	
890-2241-12	FS12	Total/NA	Solid	8015NM Prep	
890-2241-13	FS13	Total/NA	Solid	8015NM Prep	
890-2241-14	FS14	Total/NA	Solid	8015NM Prep	
890-2241-16	SW02	Total/NA	Solid	8015NM Prep	
MB 880-24524/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24524/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2241-1 MS	FS01	Total/NA	Solid	8015NM Prep	

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Job ID: 890-2241-1 SDG: 03A1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

GC Semi VOA (Continued)

Prep Batch: 24524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-1	FS01	Total/NA	Solid	8015B NM	24524
890-2241-2	FS02	Total/NA	Solid	8015B NM	24524
890-2241-3	FS03	Total/NA	Solid	8015B NM	24524
890-2241-4	FS04	Total/NA	Solid	8015B NM	24524
890-2241-5	FS05	Total/NA	Solid	8015B NM	24524
890-2241-6	FS06	Total/NA	Solid	8015B NM	24524
890-2241-7	FS07	Total/NA	Solid	8015B NM	24524
890-2241-8	FS08	Total/NA	Solid	8015B NM	24524
890-2241-9	FS09	Total/NA	Solid	8015B NM	24524
890-2241-10	FS10	Total/NA	Solid	8015B NM	24524
390-2241-11	FS11	Total/NA	Solid	8015B NM	24524
390-2241-12	FS12	Total/NA	Solid	8015B NM	24524
390-2241-13	FS13	Total/NA	Solid	8015B NM	24524
890-2241-14	FS14	Total/NA	Solid	8015B NM	24524
890-2241-16	SW02	Total/NA	Solid	8015B NM	24524
MB 880-24524/1-A	Method Blank	Total/NA	Solid	8015B NM	24524
LCS 880-24524/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24524
LCSD 880-24524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24524
890-2241-1 MS	FS01	Total/NA	Solid	8015B NM	24524
890-2241-1 MSD	FS01	Total/NA	Solid	8015B NM	24524

Analysis Batch: 24623

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2241-1	FS01	Total/NA	Solid	8015 NM	
890-2241-2	FS02	Total/NA	Solid	8015 NM	
890-2241-3	FS03	Total/NA	Solid	8015 NM	
890-2241-4	FS04	Total/NA	Solid	8015 NM	
890-2241-5	FS05	Total/NA	Solid	8015 NM	
890-2241-6	FS06	Total/NA	Solid	8015 NM	
890-2241-7	FS07	Total/NA	Solid	8015 NM	
890-2241-8	FS08	Total/NA	Solid	8015 NM	
890-2241-9	FS09	Total/NA	Solid	8015 NM	
890-2241-10	FS10	Total/NA	Solid	8015 NM	
890-2241-11	FS11	Total/NA	Solid	8015 NM	
890-2241-12	FS12	Total/NA	Solid	8015 NM	
890-2241-13	FS13	Total/NA	Solid	8015 NM	
890-2241-14	FS14	Total/NA	Solid	8015 NM	
890-2241-16	SW02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24517

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method Pre	p Batch
890-2241-1	FS01	Soluble	Solid	DI Leach	
890-2241-2	FS02	Soluble	Solid	DI Leach	
890-2241-3	FS03	Soluble	Solid	DI Leach	
890-2241-4	FS04	Soluble	Solid	DI Leach	

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Job ID: 890-2241-1 SDG: 03A1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

HPLC/IC (Continued)

Leach Batch: 24517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2241-5	FS05	Soluble	Solid	DI Leach		
890-2241-6	FS06	Soluble	Solid	DI Leach		D
890-2241-7	FS07	Soluble	Solid	DI Leach		
890-2241-8	FS08	Soluble	Solid	DI Leach		
890-2241-9	FS09	Soluble	Solid	DI Leach		
890-2241-10	FS10	Soluble	Solid	DI Leach		
890-2241-11	FS11	Soluble	Solid	DI Leach		
890-2241-12	FS12	Soluble	Solid	DI Leach	8	B
890-2241-13	FS13	Soluble	Solid	DI Leach		
890-2241-14	FS14	Soluble	Solid	DI Leach		5
890-2241-16	SW02	Soluble	Solid	DI Leach		
MB 880-24517/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-24517/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-24517/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-2241-6 MS	FS06	Soluble	Solid	DI Leach		
890-2241-6 MSD	FS06	Soluble	Solid	DI Leach		
Analysis Batch: 2466	8					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2241-1	FS01	Soluble	Solid	300.0	24517
890-2241-2	FS02	Soluble	Solid	300.0	24517
890-2241-3	FS03	Soluble	Solid	300.0	24517
890-2241-4	FS04	Soluble	Solid	300.0	24517
890-2241-5	FS05	Soluble	Solid	300.0	24517
890-2241-6	FS06	Soluble	Solid	300.0	24517
890-2241-7	FS07	Soluble	Solid	300.0	24517
890-2241-8	FS08	Soluble	Solid	300.0	24517
890-2241-9	FS09	Soluble	Solid	300.0	24517
890-2241-10	FS10	Soluble	Solid	300.0	24517
890-2241-11	FS11	Soluble	Solid	300.0	24517
890-2241-12	FS12	Soluble	Solid	300.0	24517
890-2241-13	FS13	Soluble	Solid	300.0	24517
890-2241-14	FS14	Soluble	Solid	300.0	24517
890-2241-16	SW02	Soluble	Solid	300.0	24517
MB 880-24517/1-A	Method Blank	Soluble	Solid	300.0	24517
LCS 880-24517/2-A	Lab Control Sample	Soluble	Solid	300.0	24517
LCSD 880-24517/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24517
890-2241-6 MS	FS06	Soluble	Solid	300.0	24517
890-2241-6 MSD	FS06	Soluble	Solid	300.0	24517

Job ID: 890-2241-1

SDG: 03A1987005

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Leach

Analysis

Prep

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Client Sample ID: FS01

Date Collected: 04/22/22 14:30

Date Received: 04/26/22 10:48

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Lab Chronicle

Initial

Amount

5.00 g

5 mL

10.01 g

5.02 g

Dil

1

1

1

1

10

Factor

Run

Job ID: 890-2241-1 SDG: 03A1987005

Lab Sample ID: 890-2241-1

Analyst

MR

Prepared

or Analyzed

05/04/22 12:55

05/06/22 14:28 MR

05/06/22 18:30 AJ

05/02/22 09:24 AJ

04/29/22 14:07 DM

05/01/22 22:26 AJ

04/29/22 11:21 SC

05/03/22 17:15 CH

Batch

24825

24955

25013

24623

24524

24575

24517

24668

Number

Final

Amount

5 mL

5 mL

10 mL

50 mL

Matrix: Solid

Lab

XEN MID

Lab Sample ID: 890-2241-2 Matrix: Solid

Lab Sample ID: 890-2241-3

Lab Sample ID: 890-2241-4

Matrix: Solid

Client Sample ID: FS02 Date Collected: 04/22/22 14:35 Date Received: 04/26/22 10:48

	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	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 14:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 23:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 17:21	СН	XEN MID

Client Sample ID: FS03 Date Collected: 04/22/22 14:40 Date Received: 04/26/22 10:48

	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	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 15:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	24524 24575	04/29/22 14:07 05/01/22 23:51	DM AJ	XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5 g	50 mL	24517 24668	04/29/22 11:21 05/03/22 17:28		XEN MID XEN MID

Client Sample ID: FS04 Date Collected: 04/22/22 13:20 Date Received: 04/26/22 10:48

	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	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 15:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-2241-1 SDG: 03A1987005

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2241-6

Lab Sample ID: 890-2241-7

Client Sample ID: FS04 Date Collected: 04/22/22 13:20 Date Received: 04/26/22 10:48

Client: Ensolum

	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			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 00:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 17:34	СН	XEN MID
Client Sam	ple ID: FS0)5						Lab Sample	e ID: 89	0-2241-5

Client Sample ID: FS05 Date Collected: 04/22/22 13:25 Date Received: 04/26/22 10:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 16:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 00:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 17:40	СН	XEN MID

Client Sample ID: FS06

Date Collected: 04/25/22 09:50 Date Received: 04/26/22 10:48

	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	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 01:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 17:47	CH	XEN MID

Client Sample ID: FS07 Date Collected: 04/25/22 09:55 Date Received: 04/26/22 10:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 02:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 01:12	AJ	XEN MID

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Job ID: 890-2241-1 SDG: 03A1987005

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2241-8

Lab Sample ID: 890-2241-9

Client Sample ID: FS07 Date Collected: 04/25/22 09:55 Date Received: 04/26/22 10:48

Client: Ensolum

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 18:06	СН	XEN MID

Client Sample ID: FS08 Date Collected: 04/25/22 10:00 Date Received: 04/26/22 10:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 02:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 18:12	СН	XEN MID

Client Sample ID: FS09 Date Collected: 04/25/22 10:45 Date Received: 04/26/22 10:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 03:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 18:31	CH	XEN MID

Client Sample ID: FS10 Date Collected: 04/25/22 10:50 Date Received: 04/26/22 10:48

Lab Sample ID: 890-2241-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 03:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 02:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 18:38	СН	XEN MID

Eurofins Carlsbad

Batch

Type

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Client Sample ID: FS11

Date Collected: 04/25/22 12:15

Date Received: 04/26/22 10:48

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Lab Chronicle

Initial

Amount

5.01 g

10.00 g

5.01 g

Final

Amount

5 mL

10 mL

50 mL

Batch

24987

24939

25013

24623

24524

24575

24517

24668

Number

Dil

1

1

1

1

1

Factor

Run

Job ID: 890-2241-1 SDG: 03A1987005

Lab Sample ID: 890-2241-11

Analyst

MR

Prepared

or Analyzed

05/06/22 13:02

05/07/22 03:49 MR

05/06/22 18:30 AJ

05/02/22 09:24 AJ

04/29/22 14:07 DM

05/02/22 02:53 AJ

04/29/22 11:21 SC

05/03/22 18:44 CH

Matrix: Solid

Lab

XEN MID

Matrix: Solid

9 10

Lab Sample ID: 890-2241-12 Matrix: Solid

Lab Sample ID: 890-2241-13

Lab Sample ID: 890-2241-14

Client Sample ID: FS12 Date Collected: 04/25/22 14:20 Date Received: 04/26/22 10:48

	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	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 04:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 03:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		1			24668	05/03/22 18:50	СН	XEN MID

Client Sample ID: FS13 Date Collected: 04/25/22 14:25 Date Received: 04/26/22 10:48

Batch Dil Initial Batch Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.00 g 5 mL 24987 05/06/22 13:02 MR XEN MID Total/NA 8021B Analysis 1 24939 05/07/22 04:30 MR XEN MID Total/NA Analysis Total BTEX 1 25013 05/06/22 18:30 AJ XEN MID Total/NA Analysis 8015 NM 1 24623 05/02/22 09:24 AJ XEN MID Total/NA 8015NM Prep 24524 04/29/22 14:07 DM XEN MID Prep 10.01 g 10 mL Total/NA Analysis 8015B NM 1 24575 05/02/22 03:33 AJ XEN MID 24517 Soluble Leach **DI Leach** 5.03 g 50 mL 04/29/22 11:21 SC XEN MID Soluble Analysis 300.0 1 24668 05/03/22 18:57 CH XEN MID

Client Sample ID: FS14 Date Collected: 04/25/22 14:15 Date Received: 04/26/22 10:48

	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	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 04:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID

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Matrix: Solid

Job ID: 890-2241-1 SDG: 03A1987005

Client Sample ID: FS14 Date Collected: 04/25/22 14:15 Date Received: 04/26/22 10:48

Client: Ensolum

Prep Type Total/NA	Batch Type Analysis	Batch Method 8015 NM	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 24623	Prepared or Analyzed 05/02/22 09:24	Analyst AJ	Lab XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	24524 24575	04/29/22 14:07 05/02/22 03:53	DM AJ	XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.05 g	50 mL	24517 24668	04/29/22 11:21 05/03/22 19:03	SC CH	XEN MID XEN MID
Client Sam	ple ID: SW	02					L	ab Sample	ID: 890	-2241-16

Client Sample ID: SW02 Date Collected: 04/25/22 12:45 Date Received: 04/26/22 10:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	24987	05/06/22 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1			24939	05/07/22 05:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25013	05/06/22 18:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24623	05/02/22 09:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24524	04/29/22 14:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/02/22 04:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	24517	04/29/22 11:21	SC	XEN MID
Soluble	Analysis	300.0		5			24668	05/03/22 19:09	СН	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Lab Sample ID: 890-2241-14

Matrix: Solid

Matrix: Solid

5 9

|1 |2 |3

Accreditation/Certification Summary

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10

Job ID: 890-2241-1
SDG: 03A1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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
exas	NE	ELAP	T104704400-21-22	06-30-22
The following englyte:	are included in this read	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not c			for certified by the governing autionty.	
0,		Matrix	Analyte	
the agency does not o	offer certification.		, , , , ,	

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Job ID: 890-2241-1 SDG: 03A1987005

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-2241-1	FS01	Solid	04/22/22 14:30	04/26/22 10:48	3
390-2241-2	FS02	Solid	04/22/22 14:35	04/26/22 10:48	3
390-2241-3	FS03	Solid	04/22/22 14:40	04/26/22 10:48	3 - 4
390-2241-4	FS04	Solid	04/22/22 13:20	04/26/22 10:48	4
390-2241-5	FS05	Solid	04/22/22 13:25	04/26/22 10:48	4
390-2241-6	FS06	Solid	04/25/22 09:50	04/26/22 10:48	3
390-2241-7	FS07	Solid	04/25/22 09:55	04/26/22 10:48	3
390-2241-8	FS08	Solid	04/25/22 10:00	04/26/22 10:48	3
390-2241-9	FS09	Solid	04/25/22 10:45	04/26/22 10:48	3
390-2241-10	FS10	Solid	04/25/22 10:50	04/26/22 10:48	3 - 4
390-2241-11	FS11	Solid	04/25/22 12:15	04/26/22 10:48	3
390-2241-12	FS12	Solid	04/25/22 14:20	04/26/22 10:48	4
390-2241-13	FS13	Solid	04/25/22 14:25	04/26/22 10:48	4
390-2241-14	FS14	Solid	04/25/22 14:15	04/26/22 10:48	3 - 4
390-2241-16	SW02	Solid	04/25/22 12:45	04/26/22 10:48	0 - 4

5/10/2022 (Rev. 1)

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	Environment Testing		Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:	
	Xenco	EL Paso, Hobbs, I	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		Ъ
Project Manager	Anna Ruser	Bill to: (if different)	Jim Raley	omments	
Company Name:	1 3	Company Name:		Program: UST/PST PRP Brownfields RRC Su	Superfund
Address:	3122 National Parks Hwy		5315 Buena Vista Dr.	(
City, State ZIP:	Carlsbad, NM BBRRD	City, State ZIP:	Carlsbard, Nin 88228	evel II Level III PST/UST	Levei IV
Phone:		Email: abyers	e ensolum. con	Deliverables: EDD ADaPT Other:	
Project Name:	North Brushy Draw 35-24	Turn Around	ANALYSIS REQUEST	EQUEST Preservative Codes	es
Project Number:	03A1987005 Debutine	Rush	Pres. Code	None: NO DI W	DI Water: H ₂ O
Project Location:	Eddy County, NM Due Date:	late:		0	MeOH: Me
Sampler's Name:	20	TAT starts the day received by the lab, if received by 4:30pm	-	HCL: HC HNO 3: HN H, 50 4: H2 NaOH: Na	HNO ₃ : HN NaOH: Na
	Temp Blank: Yes No Wette:	te: Yes No	12	H ₃ PO 4: HP	
Samples Received Intact:	Yes No Thermometer		28 101	NaHSO 4: NABIS	
Cooler Custody Seals:	Yes NO NIA Connection Factors	t.	3 4	Na 25 20 3: NaSO 3	
Sample Custody Seals:	Yes No N/A	Cad ibu	B	Zn Acetate+NaOH: Zn NaOH+Acetate+NaOH: Zn	DC
Total Containers:	Corrected Temperature:	ture:	ירק		
Sample Identification	fication Matrix Date Time Sampled	Depth Grab/ Comp	#of Cont TPH BTE	Sample Comments	nts
FSII	3 4/25/22 1215	5 3' Cano		Incident ID	
FS 12	A241 1 1428	4'		thipidzwan	+98+
FS 13	1425	5 4'	× -		
FSH	5171	3-4'			
Covel 1	A630	Se # 31			
Swar	1 1 1245	12 0-4' 4			N
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 AI	N	Se Ag SiO ₂ Na Sr Tl Sn	
ircle Method(s)	Circle Method(s) and Metal(s) to be analyzed TC	TCLP / SPLP 6010 : 8RCRA	A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ni Se Ag TI U Hg: 1631/245.1/7470 /7471	
tice: Signature of this doc service. Eurofins Xenco w surofins Xenco. A minimu	ument and relinquishment of samples constitutes a valid purc III be liable only for the cost of samples and shall not assume a m charge of \$85.00 will be applied to each project and a char	hase order from client company t iny responsibility for any losses or ge of \$5 for each sample submitte	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 terma and conditions of service. Eurofins Xenco will be liable only for the cost of samples and subcontractors and subcontractors that the control of service. Eurofins Xenco, will be liable only for the cost of samples and subcontractors and subcontractors. It assigns standard terma and conditions of service. Eurofins Xenco, will be liable only for the cost of samples and subcontractors are due to circumstances beyond the control of service. A superstances are due to circumstances beyond the control of survives are due to circumstances beyond the control of survives are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of survives are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances beyond the control of success are due to circumstances are due to each project and a charge of \$5 for each project success are due to each project and a charge of \$5 for each project success are due to each project and a charge of \$5 for each project and success are due to circumstances are due to circumstances are due to each project and a charge of \$5 for each project and success are due to each project and a charge of \$5 for each project and a success are due to each project and a charge of \$5 for each project and a success are due to each project and a success are due to each project and a charge of \$5 for each project and a success are	d terms and conditions ces beyond the control Lunless previously negotiated.	
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Con	2	3	4/25/22C17362 (June By	Byens N-Oto 4/26/2	5 6.
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			0		

		lent lesting	Midland, TX	(432) 704-5440), San Antonio	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Urder No:	No:
	Xenco		EL Paso, T) Hobbs, NN	((915) 585-344 1 (575) 392-755	3, Lubbock, T 0, Carlsbad, N	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		com Page of
Project Manager:	NA BYERS		Bill to: (if different)	MIC	JM RAEY		Work Or	omments
	EUSOLUM.		Company Name:	wex	x		Program: UST/PST PRP	Brownfields RRC Superfund
	3122 NATIONAL PARKS HWY	Maks Hwy	Address:	SIES		BUDUA VISTA DE.	State of Project:	
ie ZIP:	CARLSBAB NM	L 88220	City, State ZIP:	O	CARLSBAD, NM	NM 88220	Reporting: Level II	PST/UST TRRP Level IV
	575-200-6754	SY Email:	ABYERS	@ EUSOLUM. COM	UM.C	No	Deliverables: EDD	ADaPT 🗌 Other:
Project Name:	NORTH BENSHY DRAW 25-2H		Turn Around			ANALYSIS REQUEST	L	Preservative Codes
er:	200 4861 480	Rout	Rush 24 HC Code	de.				None: NO DI Water: H ₂ O
	EDDY COUTY, NM	M Due Date:		-	6			
	GILBURT NORENO		TAT starts the day received by		.00 81 1			
101	106/12/1201		the lab, if received by 4:30pm	15	30			H ₂ S0 4: H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes to Wet Ice:	No	10	Va OS			H₃PO₄: HP
Samples Received Intact:	Yes No Th	Thermometer ID:	Eco-ma	_				NaHSO 4: NABIS
Cooler Custody Seals:	Yes No MTA CO	Correction Factor:	0.0	d) =			Na 25 203: NaSO 3
Sample Custody Seals:	Yes No W/A Te	Temperature Reading:	0,9	_	N C	890-2261 Chain of Custody	nstoay	Zn Acetate+NaOH: Zn
Total Containers:	U	Corrected Temperature:	0.4		130			NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date The Sampled	Depth Grab/ # of	al	110 218			Sample Comments
Swos	S 4		0-14' CMP					ANCIDENT ID
<w ole<="" td=""><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>NEM ZOI414 7987</td></w>					1			NEM ZOI414 7987
CW 07		51:60		1				
5W 08		04:20						
Swog		22:60		1				
Sw 10		04:30						
5w 11		24:60						
5W 12		09:50						
Sw 13	-	09:55	_		7			
Sw 14	>	V 10:00		1				
Total 200.7 / 6010 rcle Method(s) and N	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8RCR	Texas 11 6010 : 880	AI Sb As Ba Be B Cd Ca Cr CRA Sb As Ba Be Cd Cr Co C	Be Ed Cd	Ca Cr Co Cu Fe Pb Mg Mn Mo Ni · Co Cu Pb Mn Mo Ni Se Ag Tl U	vi K Se Ag SiO ₂ Hg: 1631	Na Sr Tl Sn U V Zn /245.1/7470 /7471
grature of this document at . Eurofins Xenco will be liab st Xenco. A minimum charor	nd relinquishment of samples (te only for the cost of samples a of \$85.00 will be applied to e.	constitutes a valid purchase or and shall not assume any resp ach project and a charge of \$5	der from client company to E onsibility for any losses or ex for each sample submitted t	urofins Xenco, Its senses incurred to o Eurofins Xenco	affiliates and su w the client If su , but not analyz	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, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco, the client if such losses are due to cfraumstances beyond the control of service. Such assigns standard terms and conditions of service and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco, but not analyzed. These terms will be apolled to each protect and a charge of \$5 for each standard terms targe to but not analyzed. These terms will be apolled to each protect and a charge of \$5 for each standard submitted to but not analyzed. These terms will be apolled to each protect and a charge of \$5 for each standard submitted to but on the analyzed. These terms will be apolled to each protect and a charge of \$5 for each standard submitted to but of analyzed. These terms will be apoliced unless previously regotated.	ind conditions d the control eviously negotiated.	
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Company Name: CANSOLUM Address: 3122 UnMarun Prieris Hour City, State ZIP; 3122 UnMarun Prieris Hour Project Name: S122 UnMarun Prieris Hour Project Nume: S75 200- UASY Project Name: NordTH BruSh Dur 8822.0 Project Number: 03.1 1987 005 Innem Project Location: EDDY Country, Jun Due Date: Colject Location: EDDY Country, Jun Metter: Sample State: Yes No Wetter: Cooler Custody Seals: Yes No Wetter: Sample Identification Matrix Sampled Sample Identification Matrix Sampled Sample Custody Seals: Yes No Wetter: Sample Identification Matrix Sampled Sampled Sampled Sample	H. BLUSAT DOAU 33 H. BLUSAT DOAU 33 1987 D OS COUNTY NHY E EPT NORL E EPT NORL I 2150 I II 2150 I Temp Blank: Yes No Temper Correction Yes No Temper Yes No Temper Sample Sample <t< td=""></t<>

Released to Imaging: 5/23/2023 8:29:46 AM

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Job Number: 890-2241-1 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2241 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.	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 Released to Imaging: 5/23/2023 8:29:46 AM

Job Number: 890-2241-1 SDG Number: 03A1987005

List Source: Eurofins Midland

List Creation: 04/29/22 08:26 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2241 List Number: 2 Creator: Kramer, Jessica

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

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

Eurofins Carlsbad Released to Imaging: 5/23/2023 8:29:46 AM

Received by OCD: 1/25/2023 12:00:26 AM

LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

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Ask— The Expert

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2256-1

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: North Brushy Draw 35-2H Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

RAMER

Authorized for release by: 6/10/2022 3:10:42 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Laboratory Job ID: 890-2256-1 SDG: 03A1987005

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Method Summary	27
Sample Summary	28
Chain of Custody	29
Receipt Checklists	30

Definitions/Glossary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2256-1 SDG: 03A1987005

~ 1:6:

Qualifiers		3
GC VOA Qualifier	Qualifier Description	
	Qualifier Description Indicates the analyte was analyzed for but not detected.	4
-		5
GC Semi VO		5
Qualifier	Qualifier Description	
-	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.	8
Glossary		C
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	1(
%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)	
DI	Poperting Limit or Poguested Limit (Padiochemistry)	

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

Job ID: 890-2256-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2256-1

REVISION

The report being provided is a revision of the original report sent on 5/9/2022. The report (revision 1) is being revised due to Need re run chlorides on revised report.

Report revision history

Receipt

The samples were received on 4/28/2022 10:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

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

GC Semi VOA

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 880-24548 and analytical batch 880-24679 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.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24652 and analytical batch 880-24754 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.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25414 and analytical batch 880-25429 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

RL

0.00202

0.00202

0.00202

0.00404

0.00202

0.00404

Limits

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00404 U

<0.00202 U

<0.00404 U

%Recovery Qualifier

Client Sample ID: FS15 Date Collected: 04/26/22 09:00 Date Received: 04/28/22 10:41 Sample Depth: 3 - 4

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

	SDG: 03A1987005
Lab Sample	e ID: 890-2256-1

Prepared

Prepared

D

890-2256-1 Matrix: Solid

Dil Fac

1

1

1

1

1

1

Dil Fac

4-Bromofluorobenzene (Surr)	107		70 - 130				05/05/22 11:41	05/07/22 15:09	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/05/22 11:41	05/07/22 15:09	1
_									
Method: Total BTEX - Total BT									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/09/22 15:20	1
	ige Organic	s (DRO) (0	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/04/22 10:31	1
Method: 8015B NM - Diesel Ra			· · ·			_	_ .		
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 22:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 22:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 22:28	1
	400.0	0	00.0		mg/ng		00/02/22 10:14	00/00/22 22.20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/02/22 16:14	05/03/22 22:28	1
o-Terphenyl	96		70 - 130				05/02/22 16:14	05/03/22 22:28	1
Method: 300.0 - Anions, Ion C	bromatoara	nhu Solu	ublo						
		Qualifier	RL	MDL	Unit	D	Droporod	Analyzad	Dil Fac
Analyte		Quaimer		WIDL			Prepared	Analyzed	DIFAC
Chloride	82.1		4.98		mg/Kg			05/03/22 22:26	1
Client Sample ID: FS16							Lab Samp	le ID: 890-2	256-2

Client Sample ID: FS16 Date Collected: 04/26/22 10:00 Date Received: 04/28/22 10:41 Sample Depth: 3 - 4

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/05/22 11:41	05/07/22 15:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/05/22 11:41	05/07/22 15:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/05/22 11:41	05/07/22 15:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/05/22 11:41	05/07/22 15:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/05/22 11:41	05/07/22 15:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/05/22 11:41	05/07/22 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/05/22 11:41	05/07/22 15:29	1

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Matrix: Solid

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Analyzed

Analyzed

05/05/22 11:41 05/07/22 15:09

05/05/22 11:41 05/07/22 15:09

05/05/22 11:41 05/07/22 15:09

05/05/22 11:41 05/07/22 15:09

05/05/22 11:41 05/07/22 15:09

05/05/22 11:41 05/07/22 15:09

Job ID: 890-2256-1

Released to Imaging: 5/23/2023 8:29:46 AM

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

Client Sample Results

Limits

70 - 130

RL

RL

RL

50.0

50.0

50.0

Limits

70 - 130

50.0

0.00402

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Method: Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

98

92

<0.00402 U

Job ID: 890-2256-1 SDG: 03A1987005

Prepared

Prepared

Prepared

Prepared

D

D

D

Client Sample ID: FS16

Date Collected: 04/26/22 10:00 Date Received: 04/28/22 10:41 Sample Depth: 3 - 4

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Lab Sample ID: 890-2256-2 Matrix: Solid

Analyzed

Analyzed

05/09/22 15:20

Analyzed

05/04/22 10:31

Analyzed

05/05/22 11:41 05/07/22 15:29

05/02/22 16:14 05/03/22 23:33

05/02/22 16:14 05/03/22 23:33

8 9 10

05/02/22 16:14	05/03/22 23:33	1	1
Prepared 05/02/22 16:14	Analyzed 05/03/22 23:33	Dil Fac	

Matrix: Solid

Client Sample ID: FS17							Lab Samp	le ID: 890-2	256-3
Chloride	317		4.97		mg/Kg			05/03/22 22:33	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion	Chromatogra	nhy - Solut							
o-Terphenyl	99		70 - 130				05/02/22 16:14	05/03/22 23:33	1

Client Sample ID: FS17 Date Collected: 04/26/22 09:30 Date Received: 04/28/22 10:41 Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 15:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 15:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 15:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/05/22 11:41	05/07/22 15:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 15:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/05/22 11:41	05/07/22 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/05/22 11:41	05/07/22 15:50	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/05/22 11:41	05/07/22 15:50	1
Method: Total BTEX - Tota	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/09/22 15:20	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0		mg/Kg			05/04/22 10:31	

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Released to Imaging: 5/23/2023 8:29:46 AM

Client Sample Results

Client Sample ID: FS17 Date Collected: 04/26/22 09:30 Date Received: 04/28/22 10:41

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 23:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 23:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/02/22 16:14	05/03/22 23:54	1
o-Terphenyl	109		70 - 130				05/02/22 16:14	05/03/22 23:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.00		mg/Kg			05/03/22 22:39	1

Client Sample ID: FS18

Date Collected: 04/26/22 10:50 Date Received: 04/28/22 10:41 Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/22 11:41	05/07/22 16:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/22 11:41	05/07/22 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/05/22 11:41	05/07/22 16:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/05/22 11:41	05/07/22 16:10	1
-									
Method: Total BTEX - Total		tion							
	BTEX Calcula	tion Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_ Method: Total BTEX - Total	BTEX Calcula	Qualifier		MDL	Unit mg/Kg	<u>D</u>		Analyzed 05/09/22 15:20	Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel	I BTEX Calcula Result <0.00400 Range Organic	Qualifier U s (DRO) (C	RL 0.00400		mg/Kg	=	Prepared	05/09/22 15:20	1
Method: Total BTEX - Total Analyte Total BTEX	I BTEX Calcula Result <0.00400 Range Organic	Qualifier U	RL 0.00400	MDL	mg/Kg	D			Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel	I BTEX Calcula Result <0.00400 Range Organic	Qualifier U s (DRO) (C Qualifier	RL 0.00400		mg/Kg	=	Prepared	05/09/22 15:20	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result <0.00400 Range Organic Result <50.0	Qualifier U s (DRO) (C Qualifier U	RL 0.00400		mg/Kg Unit	=	Prepared	05/09/22 15:20 Analyzed	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	I BTEX Calcula Result <0.00400 Range Organic Result <50.0	Qualifier U s (DRO) (C Qualifier U	RL 0.00400		mg/Kg Unit mg/Kg	=	Prepared	05/09/22 15:20 Analyzed	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese	I BTEX Calcula Result <0.00400 Range Organic Result <50.0	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00400 RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	05/09/22 15:20 Analyzed 05/04/22 10:31	1 Dil Fac

C10-C28) 05/02/22 16:14 05/04/22 00:15 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 1 Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 70 - 130 05/02/22 16:14 05/04/22 00:15 1-Chlorooctane 100 1 o-Terphenyl 95 70 - 130 05/02/22 16:14 05/04/22 00:15 1

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Job ID: 890-2256-1 SDG: 03A1987005

Lab Sample ID: 890-2256-3

Matrix: Solid
5

Client Sample Results Client: Ensolum Job ID: 890-2256-1 Project/Site: North Brushy Draw 35-2H SDG: 03A1987005 Client Sample ID: FS18 Lab Sample ID: 890-2256-4 Date Collected: 04/26/22 10:50 Matrix: Solid Date Received: 04/28/22 10:41 Sample Depth: 3 Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 4.96 05/11/22 09:31 Chloride 622 mg/Kg Client Sample ID: FS19 Lab Sample ID: 890-2256-5 Date Collected: 04/26/22 10:45 Matrix: Solid Date Received: 04/28/22 10:41 Sample Depth: 3 Method: 8021B - Volatile Organic Compounds (GC) **Result Qualifier** MDL Unit Prepared Analyzed Analyte RL D Dil Fac Benzene <0.00200 U 05/05/22 11:41 05/07/22 16:31 0.00200 mg/Kg 1 Toluene <0.00200 U 0.00200 mg/Kg 05/05/22 11:41 05/07/22 16:31 1 05/05/22 11:41 05/07/22 16:31 Ethvlbenzene <0.00200 U 0.00200 mg/Kg 1 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 05/05/22 11:41 05/07/22 16:31 1 o-Xylene <0.00200 U 0.00200 mg/Kg 05/05/22 11:41 05/07/22 16:31 1 05/05/22 11:41 05/07/22 16:31 Xylenes, Total <0.00399 U 0.00399 mg/Kg 1 Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 109 70 - 130 05/05/22 11:41 05/07/22 16:31 91 1,4-Difluorobenzene (Surr) 70 - 130 05/05/22 11:41 05/07/22 16:31 **Method: Total BTEX - Total BTEX Calculation** MDL Unit D Analyte **Result Qualifier** RL Prepared Analyzed Dil Fac Total BTEX <0.00399 U 0.00399 mg/Kg 05/09/22 15:20 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) MDL Unit D Analyte **Result Qualifier** RL Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 05/04/22 10:31 1 Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 05/02/22 16:14 05/04/22 00:37 Gasoline Range Organics 50.0 mg/Kg (GRO)-C6-C10 50.0 05/02/22 16:14 05/04/22 00:37 **Diesel Range Organics (Over** <50.0 U mg/Kg 1 C10-C28) 50.0 05/02/22 16:14 05/04/22 00:37 Oll Range Organics (Over C28-C36) <50.0 U mg/Kg 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 99 70 - 130 05/02/22 16:14 05/04/22 00:37 1 o-Terphenyl 98 70 - 130 05/02/22 16:14 05/04/22 00:37 1 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** MDL D RL Unit Prepared Analyzed Dil Fac

AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride5144.99mg/Kg05/11/22 09:5605/11/22 09:5605/11/22 09:5605/11/22 09:5605/11/22 09:56

Client Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: FS20 Date Collected: 04/26/22 11:30 Date Received: 04/28/22 10:41 Sample Depth: 3

Job ID: 890-2256-1
SDG: 03A1987005

Lab Sample ID: 890-2256-6

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	< 0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:52	
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:52	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:52	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/05/22 11:41	05/07/22 16:52	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 16:52	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/05/22 11:41	05/07/22 16:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				05/05/22 11:41	05/07/22 16:52	
1,4-Difluorobenzene (Surr)	91		70 - 130				05/05/22 11:41	05/07/22 16:52	
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/09/22 15:20	
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			05/04/22 10:31	
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/04/22 00:58	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/04/22 00:58	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/04/22 00:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	102		70 - 130				05/02/22 16:14	05/04/22 00:58	
o-Terphenyl	104		70 - 130				05/02/22 16:14	05/04/22 00:58	
Method: 300.0 - Anions, Ion C			ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	553		4.98		mg/Kg			05/11/22 10:04	
lient Sample ID: SW01							Lab Samp	le ID: 890-2	256-
ate Collected: 04/25/22 09:30								Matrix	: Sol
ate Received: 04/28/22 10:41 ample Depth: 0 - 3									
•		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 05/05/22 11:41	Analyzed 05/07/22 17:12	Dil Fa
Method: 8021B - Volatile Orga Analyte Benzene Toluene	Result	Qualifier		MDL		<u>D</u>			Dil Fa

4-Bromofluorobenzene (Surr)	112		70 - 130		05/05/22 11:41	05/07/22 17:12	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/05/22 11:41	05/07/22 17:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/05/22 11:41	05/07/22 17:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/05/22 11:41	05/07/22 17:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/05/22 11:41	05/07/22 17:12	1

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Released to Imaging: 5/23/2023 8:29:46 AM

Client Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: SW01

Client Sample ID: SW01

Date Collected: 04/25/22 09:30 Date Received: 04/28/22 10:41

Lab Sample ID: 890-2256-7

05/04/22 10:31

Job ID: 890-2256-1

SDG: 03A1987005

Matrix: Solid

Date Received: 04/28/22 Sample Depth: 0 - 3

Total TPH

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

<50.0 U

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130				05/05/22 11:41	05/07/22 17:12	1
Method: Total BTEX - To	tal BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402		0.00402		mg/Kg			05/09/22 15:20	

50.0

mg/Kg

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

Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	r	mg/Kg		05/02/22 16:14	05/04/22 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	r	mg/Kg		05/02/22 16:14	05/04/22 01:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	r	mg/Kg		05/02/22 16:14	05/04/22 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				05/02/22 16:14	05/04/22 01:19	1
o-Terphenyl	97		70 - 130				05/02/22 16:14	05/04/22 01:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	471		4.98		mg/Kg			05/04/22 16:07	1	
Client Sample ID: SW03							Lab Samp	ole ID: 890-2	256-8	

Client Sample ID: SW03 Date Collected: 04/27/22 12:30 Date Received: 04/28/22 10:41

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 17:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 17:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 17:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/05/22 11:41	05/07/22 17:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/22 11:41	05/07/22 17:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/05/22 11:41	05/07/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/05/22 11:41	05/07/22 17:33	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/05/22 11:41	05/07/22 17:33	1
- Method: Total BTEX - Tota	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/09/22 15:20	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/04/22 10:31	1

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Matrix: Solid

Client Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: SW03

Date Collected: 04/27/22 12:30 Date Received: 04/28/22 10:41

Sample	Depth:	0 - 4	

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/02/22 16:14	05/04/22 01:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/02/22 16:14	05/04/22 01:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/02/22 16:14	05/04/22 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/02/22 16:14	05/04/22 01:41	1
o-Terphenyl	98		70 - 130				05/02/22 16:14	05/04/22 01:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	303	4.99	mg/Kg			05/04/22 16:14	1

Client Sample ID: SW04

Date Collected: 04/27/22 09:05 Date Received: 04/28/22 10:41 Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/05/22 11:41	05/07/22 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/05/22 11:41	05/07/22 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/05/22 11:41	05/07/22 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/05/22 11:41	05/07/22 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/05/22 11:41	05/07/22 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/22 11:41	05/07/22 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				05/05/22 11:41	05/07/22 17:53	1
								0.5/0.3/0.0 / 3.50	
1,4-Difluorobenzene (Surr)	86		70 - 130				05/05/22 11:41	05/07/22 17:53	1
		tion	70 - 130				05/05/22 11:41	05/07/22 17:53	7
Method: Total BTEX - Total	BTEX Calcula	<mark>tion</mark> Qualifier	70 - 130 RL	MDL	Unit	D	05/05/22 11:41 Prepared	05/07/22 17:53 Analyzed	7 Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX	BTEX Calcula	Qualifier		MDL	Unit mg/Kg	D			7 Dil Fac 1
Method: Total BTEX - Total Analyte Total BTEX	BTEX Calcula Result <0.00398	Qualifier U	RL 0.00398	MDL		D		Analyzed	7 Dil Fac
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel	BTEX Calcula Result <0.00398 Range Organic	Qualifier U	RL 0.00398		mg/Kg	D 		Analyzed	7 Dil Fac 1 Dil Fac
Method: Total BTEX - Total Analyte	BTEX Calcula Result <0.00398 Range Organic	Qualifier U s (DRO) (C Qualifier	RL 0.00398		mg/Kg	=	Prepared	Analyzed 05/09/22 15:20	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH	BTEX Calcula Result <0.00398 Range Organic Result <49.9	Qualifier U s (DRO) (C Qualifier U	RL 0.00398 		mg/Kg Unit	=	Prepared	Analyzed 05/09/22 15:20 Analyzed	1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH Method: 8015B NM - Diese	BTEX Calcula Result <0.00398 Range Organic Result <49.9	Qualifier U s (DRO) (C Qualifier U	RL 0.00398 		mg/Kg Unit mg/Kg	=	Prepared	Analyzed 05/09/22 15:20 Analyzed	1 Dil Fac 1
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel Analyte	BTEX Calcula Result <0.00398 Range Organic Result <49.9	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00398 - GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/09/22 15:20 Analyzed 05/04/22 10:31	1

C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 05/02/22 16:14 05/04/22 02:02 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 05/02/22 16:14 05/04/22 02:02 1-Chlorooctane 106 1 o-Terphenyl 107 70 - 130 05/02/22 16:14 05/04/22 02:02 1

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Job ID: 890-2256-1 SDG: 03A1987005

Lab Sample ID: 890-2256-8 Matrix: Solid

<u>Dil Fac</u> :41 1 :41 1 <u>I</u> <u>Dil Fac</u> :14 1

Lab Sample ID: 890-2256-9 Matrix: Solid

		Client S	ample F	Resul	ts					1
Client: Ensolum Project/Site: North Brushy Draw 3	5-2H							Job ID: 890- SDG: 03A19		2
Client Sample ID: SW04 Date Collected: 04/27/22 09:05						I	_ab Samp	ole ID: 890-2 Matrix	256-9 : Solid	3
Date Received: 04/28/22 10:41 Sample Depth: 0 - 4										4
Method: 300.0 - Anions, Ion Ch Analyte	romatograp Result		e RL	МП	Unit	D	Prepared	Applyzod	Dil Fac	5
Chloride	1290		25.1		mg/Kg		Fiepaieu	Analyzed 05/04/22 16:20	5	6
										7
										8
										9
										10
										11
										13
										14

Surrogate Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

			Pe	rcent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		- 1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-2256-1	FS15	107	92		- 6
890-2256-1 MS	FS15	113	95		
890-2256-1 MSD	FS15	112	95		- 5
890-2256-2	FS16	110	92		
890-2256-3	FS17	108	92		
890-2256-4	FS18	109	92		
890-2256-5	FS19	109	91		
890-2256-6	FS20	108	91		
890-2256-7	SW01	112	94		
890-2256-8	SW03	109	92		
890-2256-9	SW04	92	86		
LCS 880-24878/1-A	Lab Control Sample	106	94		
LCSD 880-24878/2-A	Lab Control Sample Dup	118	92		
MB 880-24878/5-A	Method Blank	103	90		
Surrayata Lawand					
Surrogate Legend					- 6
BFB = 4-Bromofluorob					
DFBZ = 1,4-Difluorobe	nzene (Surr)				

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

_			Per
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2256-1	FS15	97	96
890-2256-1 MS	FS15	86	78
890-2256-1 MSD	FS15	84	77
890-2256-2	FS16	98	99
890-2256-3	FS17	106	109
890-2256-4	FS18	100	95
890-2256-5	FS19	99	98
890-2256-6	FS20	102	104
890-2256-7	SW01	100	97
890-2256-8	SW03	99	98
890-2256-9	SW04	106	107
LCS 880-24682/2-A	Lab Control Sample	101	102
LCSD 880-24682/3-A	Lab Control Sample Dup	96	96
MB 880-24682/1-A	Method Blank	98	103

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2256-1 SDG: 03A1987005

Prep Type: Total/NA

Prep Type: Total/NA

Page 114 of 314

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: MB 880-24878/5-A

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 25025								Prep Batch:	24878
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 14:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 14:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 14:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/22 11:41	05/07/22 14:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/22 11:41	05/07/22 14:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/22 11:41	05/07/22 14:47	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/05/22 11:41	05/07/22 14:47	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/05/22 11:41	05/07/22 14:47	1

Lab Sample ID: LCS 880-24878/1-A Matrix: Solid Analysis Batch: 25025

· ·	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09699		mg/Kg		97	70 - 130	
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	0.200	0.2314		mg/Kg		116	70 - 130	
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-24878/2-A Matrix: Solid

Analysis Batch: 25025

Analysis Batch: 25025						Prep Batch: 24878			
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08812		mg/Kg		88	70 - 130	10	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	2	35
Ethylbenzene	0.100	0.1133		mg/Kg		113	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	2	35
o-Xylene	0.100	0.1184		mg/Kg		118	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-2256-1 MS **Matrix: Solid**

Analysis Batch: 25025

Analysis Batch: 25025									Prep Batch: 24878	3
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07632		mg/Kg		77	70 - 130	-
Toluene	<0.00202	U	0.0996	0.08157		mg/Kg		82	70 - 130	

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Client Sample ID: FS15

Prep Type: Total/NA

5

7

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

	05/05/22 11:41	05/07/22 14:47	1
Clien		Lab Control Sam Prep Type: Total Prep Batch: 24	/NA
		a	

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

Spike

Added

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

MS MS

0.08638

0.1749

0.08863

Result Qualifier

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: 890-2256-1 MS

Analysis Batch: 25025

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

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

Sample Sample

MS MS

%Recovery Qualifier

113

95

<0.00202 U

<0.00404 U

<0.00202 U

Result Qualifier

Job ID: 890-2256-1 SDG: 03A1987005

Client Sample ID: FS15

%Rec

Limits

70 - 130

70 - 130

70 - 130

Client Sample ID: Method Blank

05/02/22 16:14 05/03/22 21:25

05/02/22 16:14 05/03/22 21:25

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 24682

D %Rec

87

88

89

Prep Type: Total/NA

Prep Batch: 24878

7

ID: FS15 Total/NA	
h: 24878	

Lab Sample ID: 890-2256-1 MSDClient Sample ID: FS15Matrix: SolidPrep Type: Total/NA								10				
Analysis Batch: 25025	Sample	Sample	Spike	MSD	MSD				Prep E %Rec	Batch: 2	24878 RPD	11
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	4.0
Benzene	<0.00202	U	0.0994	0.08219		mg/Kg		83	70 - 130	7	35	12
Toluene	<0.00202	U	0.0994	0.08746		mg/Kg		88	70 - 130	7	35	
Ethylbenzene	<0.00202	U	0.0994	0.09103		mg/Kg		92	70 - 130	5	35	13
m-Xylene & p-Xylene	< 0.00404	U	0.199	0.1842		mg/Kg		93	70 - 130	5	35	
o-Xylene	<0.00202	U	0.0994	0.09352		mg/Kg		94	70 - 130	5	35	14

Unit

mg/Kg

mg/Kg

mg/Kg

o-Xylene	<0.00202	U	0.0994
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-24682/1-A **Matrix: Solid** Analysis Batch: 24705

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 21:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 21:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 16:14	05/03/22 21:25	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCS 880-24682/2-A Matrix: Solid Analysis Batch: 24705

Analysis Batch: 24705							Prep E	Batch: 24682
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1047		mg/Kg		105	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	933.3		mg/Kg		93	70 - 130	
C10-C28)								

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Prep Type: Total/NA

1

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: LCS 880-24682/2-A

Lab Sample ID: LCSD 880-24682/3-A

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 24705

Analysis Batch: 24705

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 24705

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 24705

Gasoline Range Organics

Diesel Range Organics (Over

Lab Sample ID: 890-2256-1 MS

Lab Sample ID: 890-2256-1 MSD

Method: 8015B NM - Diesel Range

84 77

aw 35-2H								SDG:	03A198	37005	
esel Rand	ae Organ	nics (DRO)	(GC) (Continu	ied)						
	,,	(•)	()(
4682/2-A					Clier	nt Sai	mple ID	: Lab Con			
								Prep Ty	pe: 10t Batch: 2		
								Prep B	atch: 2	4002	E
LCS	LCS										5
%Recovery	Qualifier	Limits									
101		70 - 130									
102		70 - 130									7
24682/3-A					liont Sa	mnlo		Control	Sample	Dun	7
·24002/3-A					ment Sa	inple	ID. Lat	Control S Prep Ty			
									Batch: 2		ð
		Spike	LCSD	LCSD				%Rec		RPD	
		Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	9
		1000	960.1		mg/Kg		96	70 - 130	9	20	
					00						
		1000	847.1		mg/Kg		85	70 - 130	10	20	
LCSD	LCSD										
%Recovery	Qualifier	Limits									
96		70 - 130									
96		70 - 130									
							•				
MS							С	lient Sam	-		
								Prep Ty	-		
Somple	Sampla	Spike	ме	MS				%Rec	Batch: 2	24682	
Sample	Qualifier	Spike Added		Qualifier	Unit	D	%Rec	Limits			
<50.0		1000	993.4	Quaimer	mg/Kg		96	70 - 130			
400.0	0	1000	555.4		iiig/itg		50	70-100			
<50.0	U	1000	758.8		mg/Kg		76	70 - 130			
MS	MS										
%Recovery		Limits									
86		70 - 130									
78		70 - 130									
MSD							С	lient Sam			
								Prep Ty	-		
									Batch: 2		
Sample	-	Spike		MSD				%Rec		RPD	
	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
<50.0	U	998	967.2		mg/Kg		94	70 - 130	3	20	
<50.0	U	998	758.0		mg/Kg		76	70 - 130	0	20	
-00.0	5	550	750.0				70	10-100	0	20	
1100	MOD										
MSD % Decement		1 ins :									
%Recovery	Qualifier	Limits									

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70 - 130

70 - 130

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24	1548/1-A									CI	lie	nt Sam	ple ID: I			
Matrix: Solid Analysis Batch: 24679													Prep	Type: \$	Soli	uble
Analysis Daten. 24070		MB	МВ													
Analyte	Re	sult	Qualifier		RL	I	MDL U	nit		D	Pr	epared	Anal	yzed	Di	l Fac
Chloride	<	5.00	U		5.00		m	g/Kg	I				05/03/2	2 19:41		1
Lab Sample ID: LCS 880-2 Matrix: Solid	4548/2-A								Clie	ent S	an	nple ID	: Lab Co Prep	ontrol s Type: s		
Analysis Batch: 24679				Onilles		1.00	1.00						0/ Da a			
Analyte				Spike Added		-	LCS Qualifi	er	Unit	г	D	%Rec	%Rec Limits			
Chloride				250		255.3	Guum		mg/Kg		-	102	90 - 110	_		
Lab Sample ID: LCSD 880 Matrix: Solid	-24548/3-A							С	lient Sa	ampl	le I	ID: Lab	Contro Prep	l Samp Type: \$		
Analysis Batch: 24679																
				Spike		-	LCSD				_		%Rec			RPD
Analyte				Added 250			Qualifi	er	Unit	[D	%Rec 93	Limits		<u> </u>	Limit
Chloride				250		233.7			mg/Kg			93	90 - 110	:	9	20
Lab Sample ID: 890-2253- Matrix: Solid	A-11-D MS									(Cli	ent Sa	mple ID: Prep	Matrix Type: \$		
Analysis Batch: 24679	Sample	Sam	nlo	Spike		MS	MS						%Rec			
	•		•	Added		-	Qualifi	er	Unit	ſ	D	%Rec	Limits			
Analyte	Result															
Analyte Chloride	Result 19.2	F1		249		283.2			mg/Kg			106	90 - 110			
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679	19.2 A-11-E MSD Sample	F1	nple	249 Spike		283.2 MSD	MSD		mg/Kg Client			106 -	90 - 110 latrix Sp Prep %Rec	Type: \$	Soli	uble RPD
Chloride Lab Sample ID: 890-2253- Matrix: Solid	19.2 A-11-E MSD Sample Result	F1 Sam Qua	nple	249		283.2 MSD Result	MSD Qualifi		mg/Kg Client Unit		npl	106	90 - 110 latrix Sp Prep	Type: \$	Soli	uble RPD Limit
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte	19.2 A-11-E MSD Sample Result 19.2 G52/1-A	F1 Sam Qua F1	nple lifier	249 Spike Added		283.2 MSD Result 300.7	MSD Qualifi	er	mg/Kg Client	[D lie	106 e ID: M %Rec 113	90 - 110 latrix Sp Prep %Rec Limits 90 - 110	Type: \$ RPI Methoo Type: \$		uble RPD Limit 20 lank uble
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754	19.2 A-11-E MSD Sample Result 19.2 G52/1-A Re	F1 Sam Qua F1	nple lifier MB Qualifier	249 Spike Added		283.2 MSD Result 300.7	MSD Qualifi F1 MDL U	er	mg/Kg Client Unit mg/Kg	[CI	D lie	106	90 - 110 atrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal	Type: \$ RPI Methoo Type: \$		uble RPD Limit 20 lank
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid	19.2 A-11-E MSD Sample Result 19.2 I652/1-A Re	F1 Sam Qua F1 MB sult	nple lifier MB Qualifier	249 Spike Added		283.2 MSD Result 300.7	MSD Qualifi F1 MDL U	er	mg/Kg Client Unit mg/Kg	[CI	D lie Pr	106 - e ID: M <u>%Rec</u> 113 - nt Sam	90 - 110 latrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal 05/04/2 : Lab Cc	RPI	Solu Di Di Solu Solu San	uble RPD Limit 20 lank uble il Fac 1 nple
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCS 880-2	19.2 A-11-E MSD Sample Result 19.2 I652/1-A Re	F1 Sam Qua F1 MB sult	nple lifier MB Qualifier	249 Spike Added		283.2 MSD Result 300.7	MSD Qualifi F1 MDL U	er	mg/Kg Client Unit mg/Kg	[CI	D lie Pr	106 - e ID: M <u>%Rec</u> 113 - nt Sam	90 - 110 latrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal 05/04/2 : Lab Cc	Type: { RPI Method Type: { vzed 2 15:29 ontrol {	Solu Di Di Solu Solu San	uble RPD Limit 20 lank uble il Fac 1 nple
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid Analysis Batch: 24754	19.2 A-11-E MSD Sample Result 19.2 I652/1-A Re	F1 Sam Qua F1 MB sult	nple lifier MB Qualifier	249 Spike Added 249 Spike Added		283.2 MSD Result 300.7	MSD Qualifi F1 MDL Un	er nit g/Kg	Unit Client Unit mg/Kg Clie	[Cl	D lie Pr	106 e ID: M %Rec 113 nt Sam epared nple ID	90 - 110 atrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal 05/04/2 : Lab Co Prep %Rec Limits	Type: { RPI Method Type: { vzed 2 15:29 ontrol {	Solu Di Di Solu Solu San	uble RPD Limit 20 lank uble il Fac 1 nple
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid Analysis Batch: 24754	19.2 A-11-E MSD Sample Result 19.2 I652/1-A Re	F1 Sam Qua F1 MB sult	nple lifier MB Qualifier	249 Spike Added 249 Spike		283.2 MSD Result 300.7	MSD Qualifi F1 MDL Un m	er nit g/Kg	Unit mg/Kg Unit mg/Kg	[Cl	D lie Pr	nple ID	90 - 110 latrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal 05/04/2 : Lab Cc Prep %Rec	Type: { RPI Method Type: { vzed 2 15:29 ontrol {	Solu Di Di Solu Solu San	uble RPD Limit 20 lank uble il Fac 1 nple
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid Analysis Batch: 24754	19.2 A-11-E MSD Sample Result 19.2 U652/1-A Ke	F1 Sam Qua F1 MB sult	nple lifier MB Qualifier	249 Spike Added 249 Spike Added 250		283.2 MSD Result 300.7 LCS Result 272.5	MSD Qualifi F1	er g/Kg	Unit Client Unit mg/Kg	[D lie Pr an	106 e ID: M %Rec 113 nt Sam epared nple ID %Rec 109	90 - 110 latrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal 05/04/2 : Lab Co Prep %Rec Limits 90 - 110	Type: \$ Method Type: \$ yzed 2 15:29 ontrol \$ Type: \$	Solu Di Di Solu Solu Solu Die I Solu	uble RPD Limit 20 lank uble il Fac 1 nple uble
Chloride Lab Sample ID: 890-2253- Matrix: Solid Analysis Batch: 24679 Analyte Chloride Lab Sample ID: MB 880-24 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid Analysis Batch: 24754 Analyte Chloride Lab Sample ID: LCSD 880 Matrix: Solid	19.2 A-11-E MSD Sample Result 19.2 U652/1-A Ke	F1 Sam Qua F1 MB sult	nple lifier MB Qualifier	249 Spike Added 249 Spike Added		283.2 MSD Result 300.7 LCS Result 272.5	MSD Qualifi F1 MDL Un m	er g/Kg er C	Unit Client Unit mg/Kg	 CI ent Si 	D lie Pr an	106 e ID: M %Rec 113 nt Sam epared nple ID %Rec 109	90 - 110 atrix Sp Prep %Rec Limits 90 - 110 ple ID: I Prep Anal 05/04/2 : Lab Cc Prep %Rec Limits 90 - 110	Type: \$ Method Type: \$ yzed 2 15:29 ontrol \$ Type: \$ I Samp	Solu Di Di Solu Solu Solu Solu	uble RPD Limit 20 lank uble 1 fac 1 nple uble

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2256-1 SDG: 03A1987005

Method: 300.0 - Anions, Ion Chromatography

	~ 110							~			
Lab Sample ID: 890-2256- Matrix: Solid	6 MS							C	lient Sam	-	
Analysis Batch: 24754									Prep T	ype: So	
Allalysis Batch. 24754	Samplo	Sample	Spike	MS	MS				%Rec		
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	606		250	816.9		mg/Kg		85	90 - 110		
_											
Lab Sample ID: 890-2256-	6 MSD							С	lient Sam	ple ID:	FS20
Matrix: Solid									Prep T	ype: So	oluble
Analysis Batch: 24754											
	Sample	•	Spike	_	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	606	F1	250	836.0		mg/Kg		92	90 - 110	2	20
Lab Sample ID: MB 880-25	5414/1-0						Clie	ont Sam	nple ID: M	ethod I	Rlank
Matrix: Solid							one	un oun	Prep T		
Analysis Batch: 25429									i top i	, , , , , , , , , , , , , , , , , , , ,	
		MB MB									
Analyte	Re	sult Qualifier	r	RL	MDL Unit	D	Р	repared	Analy	zed	Dil Fac
Chloride		5.00 U		5.00	mg/K	g —		-	05/12/22	11:56	1
-											
Lab Sample ID: LCS 880-2	25414/2-A					Clien	t Sai	mple ID	: Lab Cor		
Matrix: Solid									Prep T	ype: So	bluble
Analysis Batch: 25429			Onilia	1.00	1.00				0/ D		
			Spike	LCS	LCS				%Rec		
Analyta			Addad	Decult	Qualifiar	Unit	П	0/ Dee	Limite		
Analyte Chloride			Added		Qualifier	Unit ma/Ka	_ <u>D</u>	%Rec	Limits		
Analyte Chloride			Added 250	Result 245.3	Qualifier	Unit mg/Kg	<u>D</u>	%Rec 98	Limits 90 ₋ 110		
	-25414/3-A					mg/Kg		98		Sample	e Dup
Chloride	-25414/3-A					mg/Kg		98	90 - 110		
Chloride Lab Sample ID: LCSD 880	-25414/3-A					mg/Kg		98	90 - 110		
Chloride Lab Sample ID: LCSD 880 Matrix: Solid	-25414/3-A			245.3		mg/Kg		98	90 - 110		
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte	-25414/3-A		250 Spike Added	245.3 LCSD	C	mg/Kg Client San Unit		98	90 - 110 D Control Prep T		RPD Limit
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429	-25414/3-A		250 Spike	245.3 LCSD	LCSD	mg/Kg Client San	nple	98 ID: Lat	90 - 110 Control Prep Ty %Rec	ype: Sc	RPD
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride			250 Spike Added	245.3 LCSD Result	LCSD	mg/Kg Client San Unit	– – nple _ <u>D</u>	98 ID: Lat <u>%Rec</u> 98	90 - 110 Control Prep T %Rec Limits 90 - 110	ype: So RPD 0	RPD Limit 20
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241-			250 Spike Added	245.3 LCSD Result	LCSD	mg/Kg Client San Unit	– – nple _ <u>D</u>	98 ID: Lat <u>%Rec</u> 98	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID:	ype: So RPD 0 Matrix 3	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid			250 Spike Added	245.3 LCSD Result	LCSD	mg/Kg Client San Unit	– – nple _ <u>D</u>	98 ID: Lat <u>%Rec</u> 98	90 - 110 Control Prep T %Rec Limits 90 - 110	ype: So RPD 0 Matrix 3	RPD Limit 20
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241-			250 Spike Added 250	245.3 LCSD Result 245.1	LCSD Qualifier	mg/Kg Client San Unit	– – nple _ <u>D</u>	98 ID: Lat <u>%Rec</u> 98	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID: Prep Ty	ype: So RPD 0 Matrix 3	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid Analysis Batch: 25429	A-5-F MS Sample	Sample Qualifier	250 Spike Added	245.3 LCSD Result 245.1 MS	LCSD	mg/Kg Client San Unit	– – nple _ <u>D</u>	98 ID: Lat <u>%Rec</u> 98	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID:	ype: So RPD 0 Matrix 3	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid	A-5-F MS Sample	Qualifier	250 Spike Added 250 Spike	245.3 LCSD Result 245.1 MS	LCSD Qualifier MS	mg/Kg Client San Unit mg/Kg	nple	98 ID: Lak <u>%Rec</u> 98	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID: Prep Ty %Rec	ype: So RPD 0 Matrix 3	RPD Limit 20
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid Analysis Batch: 25429 Analyte Chloride Chloride	A-5-F MS Sample Result 569	Qualifier	250 Spike Added 250 Spike Added	245.3 LCSD Result 245.1 MS Result	LCSD Qualifier MS	mg/Kg Client San Unit mg/Kg	nple _ D Cl	98 ID: Lak <u>%Rec</u> 98 iient Sa <u>%Rec</u> 90	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID: %Rec Limits 90 - 110	ype: So RPD 0 Matrix 9 ype: So	RPD Limit 20 Spike Dluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241-, Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241-,	A-5-F MS Sample Result 569	Qualifier	250 Spike Added 250 Spike Added	245.3 LCSD Result 245.1 MS Result	LCSD Qualifier MS	mg/Kg Client San Unit mg/Kg	nple _ D Cl	98 ID: Lak <u>%Rec</u> 98 iient Sa <u>%Rec</u> 90	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID: %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Limits 90 - 110	ype: Sc <u>RPD</u> 0 Matrix 3 ype: Sc ke Dup	RPD Limit 20 Spike oluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid	A-5-F MS Sample Result 569	Qualifier	250 Spike Added 250 Spike Added	245.3 LCSD Result 245.1 MS Result	LCSD Qualifier MS	mg/Kg Client San Unit mg/Kg	nple _ D Cl	98 ID: Lak <u>%Rec</u> 98 iient Sa <u>%Rec</u> 90	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID: %Rec Limits 90 - 110	ype: Sc <u>RPD</u> 0 Matrix 3 ype: Sc ke Dup	RPD Limit 20 Spike oluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241-, Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241-,	A-5-F MS Sample Result 569 A-5-G MSD	Qualifier	250 Spike Added 250 Spike Added 252	245.3 LCSD Result 245.1 MS <u>Result</u> 795.4	LCSD Qualifier MS Qualifier	mg/Kg Client San Unit mg/Kg	nple _ D Cl	98 ID: Lak <u>%Rec</u> 98 iient Sa <u>%Rec</u> 90	90 - 110 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 Matrix Spil Prep Ty	ype: Sc <u>RPD</u> 0 Matrix 3 ype: Sc ke Dup	Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid Analysis Batch: 25429 Analyte Chloride Lab Sample ID: 890-2241- Matrix: Solid	A-5-F MS Sample Result 569 A-5-G MSD Sample	Qualifier	250 Spike Added 250 Spike Added	245.3 LCSD Result 245.1 MS Result 795.4	LCSD Qualifier MS	mg/Kg Client San Unit mg/Kg	nple _ D Cl	98 ID: Lak <u>%Rec</u> 98 iient Sa <u>%Rec</u> 90	90 - 110 Control Prep Ty %Rec Limits 90 - 110 mple ID: %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Limits 90 - 110	ype: Sc <u>RPD</u> 0 Matrix 3 ype: Sc ke Dup	RPD Limit 20 Spike oluble

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2256-1

SDG: 03A1987005

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GC VOA

Prep Batch: 24878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-1	FS15	Total/NA	Solid	5035	
890-2256-2	FS16	Total/NA	Solid	5035	
890-2256-3	FS17	Total/NA	Solid	5035	
890-2256-4	FS18	Total/NA	Solid	5035	
890-2256-5	FS19	Total/NA	Solid	5035	
890-2256-6	FS20	Total/NA	Solid	5035	
890-2256-7	SW01	Total/NA	Solid	5035	
890-2256-8	SW03	Total/NA	Solid	5035	
890-2256-9	SW04	Total/NA	Solid	5035	
MB 880-24878/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24878/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24878/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2256-1 MS	FS15	Total/NA	Solid	5035	
890-2256-1 MSD	FS15	Total/NA	Solid	5035	

Analysis Batch: 25025

890-2256-7	50001	Iotal/INA	Solia	5035		
890-2256-8	SW03	Total/NA	Solid	5035		8
890-2256-9	SW04	Total/NA	Solid	5035		
MB 880-24878/5-A	Method Blank	Total/NA	Solid	5035		9
LCS 880-24878/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-24878/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
890-2256-1 MS	FS15	Total/NA	Solid	5035		
890-2256-1 MSD	FS15	Total/NA	Solid	5035		
Analysis Batch: 2502	25					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2256-1	FS15	Total/NA	Solid	8021B	24878	
890-2256-2	FS16	Total/NA	Solid	8021B	24878	13
890-2256-3	FS17	Total/NA	Solid	8021B	24878	
890-2256-4	FS18	Total/NA	Solid	8021B	24878	
890-2256-5	FS19	Total/NA	Solid	8021B	24878	
890-2256-6	FS20	Total/NA	Solid	8021B	24878	
890-2256-7	SW01	Total/NA	Solid	8021B	24878	
890-2256-8	SW03	Total/NA	Solid	8021B	24878	
890-2256-9	SW04	Total/NA	Solid	8021B	24878	
MB 880-24878/5-A	Method Blank	Total/NA	Solid	8021B	24878	
LCS 880-24878/1-A	Lab Control Sample	Total/NA	Solid	8021B	24878	
LCSD 880-24878/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24878	
890-2256-1 MS	FS15	Total/NA	Solid	8021B	24878	
890-2256-1 MSD	FS15	Total/NA	Solid	8021B	24878	

Analysis Batch: 25134

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2256-1	FS15	Total/NA	Solid	Total BTEX	
890-2256-2	FS16	Total/NA	Solid	Total BTEX	
890-2256-3	FS17	Total/NA	Solid	Total BTEX	
890-2256-4	FS18	Total/NA	Solid	Total BTEX	
890-2256-5	FS19	Total/NA	Solid	Total BTEX	
890-2256-6	FS20	Total/NA	Solid	Total BTEX	
890-2256-7	SW01	Total/NA	Solid	Total BTEX	
890-2256-8	SW03	Total/NA	Solid	Total BTEX	
890-2256-9	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24682

Lab Sample ID 890-2256-1	Client Sample ID FS15	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-2256-2	FS16	Total/NA	Solid	8015NM Prep	
890-2256-3	FS17	Total/NA	Solid	8015NM Prep	

Client: Ensolum Project/Site: North Brushy Draw 35-2H

GC Semi VOA (Continued)

Prep Batch: 24682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-4	FS18	Total/NA	Solid	8015NM Prep	
890-2256-5	FS19	Total/NA	Solid	8015NM Prep	
890-2256-6	FS20	Total/NA	Solid	8015NM Prep	
890-2256-7	SW01	Total/NA	Solid	8015NM Prep	
890-2256-8	SW03	Total/NA	Solid	8015NM Prep	
890-2256-9	SW04	Total/NA	Solid	8015NM Prep	
MB 880-24682/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24682/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2256-1 MS	FS15	Total/NA	Solid	8015NM Prep	
890-2256-1 MSD	FS15	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24705

Lab Sample ID 890-2256-1	Client Sample ID	Prep Type Total/NA	Matrix	Method 8015B NM	Prep Batch 24682
890-2256-2	FS16	Total/NA	Solid	8015B NM	24682
890-2256-3	FS17	Total/NA	Solid	8015B NM	24682
890-2256-4	FS18	Total/NA	Solid	8015B NM	24682
890-2256-5	FS19	Total/NA	Solid	8015B NM	24682
890-2256-6	FS20	Total/NA	Solid	8015B NM	24682
890-2256-7	SW01	Total/NA	Solid	8015B NM	24682
890-2256-8	SW03	Total/NA	Solid	8015B NM	24682
890-2256-9	SW04	Total/NA	Solid	8015B NM	24682
MB 880-24682/1-A	Method Blank	Total/NA	Solid	8015B NM	24682
LCS 880-24682/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24682
LCSD 880-24682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24682
890-2256-1 MS	FS15	Total/NA	Solid	8015B NM	24682
890-2256-1 MSD	FS15	Total/NA	Solid	8015B NM	24682

Analysis Batch: 24787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-1	FS15	Total/NA	Solid	8015 NM	
890-2256-2	FS16	Total/NA	Solid	8015 NM	
890-2256-3	FS17	Total/NA	Solid	8015 NM	
890-2256-4	FS18	Total/NA	Solid	8015 NM	
890-2256-5	FS19	Total/NA	Solid	8015 NM	
890-2256-6	FS20	Total/NA	Solid	8015 NM	
890-2256-7	SW01	Total/NA	Solid	8015 NM	
890-2256-8	SW03	Total/NA	Solid	8015 NM	
890-2256-9	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-1	FS15	Soluble	Solid	DI Leach	
890-2256-2	FS16	Soluble	Solid	DI Leach	
890-2256-3	FS17	Soluble	Solid	DI Leach	
MB 880-24548/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24548/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24548/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

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Job ID: 890-2256-1 SDG: 03A1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

HPLC/IC (Continued)

Leach Batch: 24548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2253-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2253-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 24652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-7	SW01	Soluble	Solid	DI Leach	
890-2256-8	SW03	Soluble	Solid	DI Leach	
890-2256-9	SW04	Soluble	Solid	DI Leach	
MB 880-24652/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24652/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24652/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2256-6 MS	FS20	Soluble	Solid	DI Leach	
890-2256-6 MSD	FS20	Soluble	Solid	DI Leach	

Analysis Batch: 24679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-1	FS15	Soluble	Solid	300.0	24548
890-2256-2	FS16	Soluble	Solid	300.0	24548
890-2256-3	FS17	Soluble	Solid	300.0	24548
MB 880-24548/1-A	Method Blank	Soluble	Solid	300.0	24548
LCS 880-24548/2-A	Lab Control Sample	Soluble	Solid	300.0	24548
LCSD 880-24548/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24548
890-2253-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	24548
890-2253-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24548

Analysis Batch: 24754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2256-7	SW01	Soluble	Solid	300.0	24652
890-2256-8	SW03	Soluble	Solid	300.0	24652
890-2256-9	SW04	Soluble	Solid	300.0	24652
MB 880-24652/1-A	Method Blank	Soluble	Solid	300.0	24652
LCS 880-24652/2-A	Lab Control Sample	Soluble	Solid	300.0	24652
LCSD 880-24652/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24652
890-2256-6 MS	FS20	Soluble	Solid	300.0	24652
890-2256-6 MSD	FS20	Soluble	Solid	300.0	24652

Leach Batch: 25241

Lab Sample ID 890-2256-4	Client Sample ID	Prep Type Soluble	Matrix	Method	Prep Batch
890-2256-5	FS19	Soluble	Solid	DI Leach	
890-2256-6	FS20	Soluble	Solid	DI Leach	

Analysis Batch: 25278

MB 880-25414/1-A

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2256-4	FS18	Soluble	Solid	300.0	25241
890-2256-5	FS19	Soluble	Solid	300.0	25241
890-2256-6	FS20	Soluble	Solid	300.0	25241
Leach Batch: 2541	14				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Soluble

Solid

DI Leach

Job ID: 890-2256-1 SDG: 03A1987005

Method Blank

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Control Sample

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

HPLC/IC (Continued)

LCS 880-25414/2-A

890-2241-A-5-F MS

LCSD 880-25414/3-A

890-2241-A-5-G MSD

Leach Batch: 25414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		5
890-2241-A-5-F MS	Matrix Spike	Soluble	Solid	DI Leach		
890-2241-A-5-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Analysis Batch: 25429						
Lab Sample ID MB 880-25414/1-A	Client Sample ID Method Blank	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 25414	8

Soluble

Soluble

Soluble

Soluble

Solid

Solid

Solid

Solid

300.0

300.0

300.0

300.0

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25414

25414

25414

25414

Job ID: 890-2256-1 SDG: 03A1987005

Released to Imaging: 5/23/2023 8:29:46 AM

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Leach

Analysis

Prep

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Client Sample ID: FS15

Date Collected: 04/26/22 09:00

Date Received: 04/28/22 10:41

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

4.95 g

10.01 g

5.02 g

Batch

24878

25025

25134

24787

24682

24705

24548

24679

Number

Final

Amount

5 mL

10 mL

50 mL

Dil

1

1

1

1

1

Factor

Run

Job ID: 890-2256-1 SDG: 03A1987005

Lab Sample ID: 890-2256-1

Analyst

MR

Lab Sample ID: 890-2256-2

Lab Sample ID: 890-2256-3

Lab Sample ID: 890-2256-4

Prepared

or Analyzed

05/05/22 11:41

05/07/22 15:09 MR

05/09/22 15:20 AJ

05/04/22 10:31 AJ

05/02/22 16:14 DM

05/03/22 22:28 AJ

04/29/22 16:57 SC

05/03/22 22:26 CH

Matrix: Solid

Lab

XEN MID

Matrix: Solid

Matrix: Solid

Client Sample ID: FS16 Date Collected: 04/26/22 10:00 Date Received: 04/28/22 10:41

	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	24878	05/05/22 11:41	MR	XEN MID	
Total/NA	Analysis	8021B		1			25025	05/07/22 15:29	MR	XEN MID	
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID	
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID	
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24682	05/02/22 16:14	DM	XEN MID	
Total/NA	Analysis	8015B NM		1			24705	05/03/22 23:33	AJ	XEN MID	
Soluble	Leach	DI Leach			5.03 g	50 mL	24548	04/29/22 16:57	SC	XEN MID	
Soluble	Analysis	300.0		1			24679	05/03/22 22:33	СН	XEN MID	

Client Sample ID: FS17 Date Collected: 04/26/22 09:30 Date Received: 04/28/22 10:41

	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	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 15:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/03/22 23:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24548	04/29/22 16:57	SC	XEN MID
Soluble	Analysis	300.0		1			24679	05/03/22 22:39	СН	XEN MID

Client Sample ID: FS18 Date Collected: 04/26/22 10:50 Date Received: 04/28/22 10:41

	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	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 16:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 5/23/2023 8:29:46 AM

Job ID: 890-2256-1 SDG: 03A1987005

Client Sample ID: FS18 Date Collected: 04/26/22 10:50 Date Received: 04/28/22 10:41

Client: Ensolum

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/04/22 00:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25241	05/10/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			25278	05/11/22 09:31	СН	XEN MID
Client Sam	ple ID: FS1	9						Lab Sample	e ID: 89	0-2256-5

Client Sample ID: FS19 Date Collected: 04/26/22 10:45 Date Received: 04/28/22 10:41

	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	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 16:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/04/22 00:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25241	05/10/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			25278	05/11/22 09:56	СН	XEN MID

Client Sample ID: FS20

Date Collected: 04/26/22 11:30 Date Received: 04/28/22 10:41

	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	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 16:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/04/22 00:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25241	05/10/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			25278	05/11/22 10:04	CH	XEN MID

Client Sample ID: SW01 Date Collected: 04/25/22 09:30 Date Received: 04/28/22 10:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 17:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/04/22 01:19	AJ	XEN MID

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2256-4 Matrix: Solid

Lab Sample ID: 890-2256-6

Lab Sample ID: 890-2256-7

Matrix: Solid

Matrix: Solid

Job ID: 890-2256-1 SDG: 03A1987005

Client Sample ID: SW01 Date Collected: 04/25/22 09:30 Date Received: 04/28/22 10:41

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/04/22 16:07	СН	XEN MID

Client Sample ID: SW03 Date Collected: 04/27/22 12:30 Date Received: 04/28/22 10:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 17:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/04/22 01:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/04/22 16:14	СН	XEN MID

Client Sample ID: SW04 Date Collected: 04/27/22 09:05 Date Received: 04/28/22 10:41

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24878	05/05/22 11:41	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/07/22 17:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25134	05/09/22 15:20	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24787	05/04/22 10:31	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24682	05/02/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24705	05/04/22 02:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		5			24754	05/04/22 16:20	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

9

Lab Sample ID: 890-2256-7 Matrix: Solid

Lab Sample ID: 890-2256-8

Lab Sample ID: 890-2256-9

Released to Imaging: 5/23/2023 8:29:46 AM

Accreditation/Certification Summary

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	ACC	reditation/Ce	ertification Summary		
Client: Ensolum Project/Site: North Br	ushy Draw 35-2H		-	Job ID: 890-2256-1 SDG: 03A1987005	2
Laboratory: Euro		ory were covered under o	each accreditation/certification below.		
Authority	Pro	ogram	Identification Number	Expiration Date	
Texas The following analyte the agency does not o	s are included in this repo	LAP rt, but the laboratory is r	T104704400-21-22	06-30-22 This list may include analytes for which	5
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					11
					13
					14

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Job ID: 890-2256-1 SDG: 03A1987005

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2256-1	FS15	Solid	04/26/22 09:00	04/28/22 10:41	3 - 4
890-2256-2	FS16	Solid	04/26/22 10:00	04/28/22 10:41	3 - 4
890-2256-3	FS17	Solid	04/26/22 09:30	04/28/22 10:41	3
890-2256-4	FS18	Solid	04/26/22 10:50	04/28/22 10:41	3
890-2256-5	FS19	Solid	04/26/22 10:45	04/28/22 10:41	3
390-2256-6	FS20	Solid	04/26/22 11:30	04/28/22 10:41	3
890-2256-7	SW01	Solid	04/25/22 09:30	04/28/22 10:41	0 - 3
890-2256-8	SW03	Solid	04/27/22 12:30	04/28/22 10:41	0 - 4
890-2256-9	SW04	Solid	04/27/22 09:05	04/28/22 10:41	0 - 4

Work Order No: www.xenco.com Page 1 of 1	r Comments Brownfields RRC PST/UST TRRP C	Preservative Codes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me H5.D0.4: HP MaOH: Na H3.P0.4: HP NaOH: Na NaHS0.4: HP NaOH: Na Sample Comments Sample Comments N0PH.N2PI-UL4: FGB F	A Se Ag SiO ₂ Na Sr II Sn U V Zn Hg: 1631/245.1/7470 /7471 d. Received by: (Signature) Date/Time Ad A Date (Signature) Date/Time
M	Program: UST/PST [Program: UST/PST [State of Project: Reporting: Level II [Deliverables: EDD [ANALYSIS REQUEST	II K Se Ag hated. Received
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	m: Jin Ravey n: WPX 5315 Buena Vista Carlsbad, NW 88	BLEX (EGH 305 K) BLEX (EGH 305 K) BLEX (EGH 305 K) BLEX (EGH 305 K)	AI Sb As Ba Be B Cd Ca Cr RCRA Sb As Ba Be Cd Cr Co C any to Eurofins Xenco, Its affiliates and subcontrac se or expenses incurred by the clern ff such losses mitted to Eurofins Xenco, but not analyzed. These Date/Time Relin 2 0
nment Testing	Bill to: (if different) Lon Martional Parkes Hwy Address: Dob- 10754 Email: Aby ers	Draw 35-2 h Turn Around S Moutine Rush Y Nim Due Date: 5 DAY Root Tat starts the day received by 4:30pm Processor Tat starts the day received by 4:30pm Torrection Factor: Correction Temperature Reading: 1 Max and trace of the lab. Temperature Reading: 1 Max and trace of the lab. Temperature Reading: 1 Max and trace of the lab. Temperature Reading: 1 Max and the lab. Temperature Reading: 1 Max and trace of the lab. Temperature Reading: 1 Max and the lab. Max and the lab. 3 4' Max and the lab. 3 - 4' Max and the lab. <th< td=""><td>BRCRA 13PPM Texas 11 AI S nalyzed TCLP/SPLP 6010 : BRCRA mples constitutes a valid purchase order from client company to Et amples and shall not assume any responsibility for any bases or equal mples and shall not assume any responsibility for any bases or equal lead to each project and a charge of \$5 for each sample submitted the Received by: (Signature) Received by: (Signature) Muture Bryers</td></th<>	BRCRA 13PPM Texas 11 AI S nalyzed TCLP/SPLP 6010 : BRCRA mples constitutes a valid purchase order from client company to Et amples and shall not assume any responsibility for any bases or equal mples and shall not assume any responsibility for any bases or equal lead to each project and a charge of \$5 for each sample submitted the Received by: (Signature) Received by: (Signature) Muture Bryers
🐝 eurofins Enviro	Project Manager: Anna Byers Company Name: Ensolum Address: 3122 National Ra City, State ZIP: Carlsback, NYN 88 Phone: 575-200-10754	Project Name: Ner AL Brudhy Diam 35-2 Project Number: Ø304 19 8 7 005 Project Location: Eddly County, Nim Sampler's Name: Ø11be 4 Moreno Sampler's Name: G11be 4 Moreno Sampler Sampler's Name: G11be 4 Moreno Sampler Sampler's Name: G11be 4 Moreno Sampler Received Intact: repain Cooler Custody Seals: Yes No MVA Cooler Custody Seals: Yes No NVA Total Containers: Corrector F Sample Identification Matrix FS1B FS1B FS1B FS1B FS1B FS1B FS1B Yuta /22 Sww B1 H/12/22 Sww B3 H/12/22	Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP6010 : BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of servec. Eurofins Xenco. will be only for the cost of samples and shall not assume any responsibility for any bases or expenses incurred by the client fi audi houses are due to documatinees beyond the control of Eurofins Xenco. Aminimum charge of 58.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotisted. Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature) 1 Mvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv

6/10/2022 (Rev. 1)

Released to Imaging: 5/23/2023 8:29:46 AM

Job Number: 890-2256-1 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2256 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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

Job Number: 890-2256-1 SDG Number: 03A1987005

List Source: Eurofins Midland

List Creation: 04/29/22 10:53 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2256 List Number: 2 Creator: Rodriguez, Leticia

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

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

Received by OCD: 1/25/2023 12:00:26 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2257-1

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: North Brushy Draw 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/9/2022 2:43:21 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

<section-header><text><text><text><text>

Laboratory Job ID: 890-2257-1 SDG: 03A1987005

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Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
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MS and/or MSD recovery exceeds control limits.

Indicates the analyte was analyzed for but not detected.

	Definitions/Glossary	1
Client: Ensolu Project/Site: N	roject/Site: North Brushy Draw 35-2H SDG: 03A1987005	
Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
F1 F2	MS and/or MSD recovery exceeds control limits. MS/MSD RPD exceeds control limits	5
S1+ U	Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.	6
GC Semi VOA Qualifier	Qualifier Description	7

HPLC/IC

F1

U

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	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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Job ID: 890-2257-1 SDG: 03A1987005

Job ID: 890-2257-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2257-1

Receipt

The samples were received on 4/28/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-2257-1), PH01 (890-2257-2), PH02 (890-2257-3), PH02 (890-2257-4) and (CCV 880-24955/20). 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 880-24652 and analytical batch 880-24754 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.

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

Result Qualifier

Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00403 U

<0.00202 U

<0.00403 U

168 S1+

81

<0.00403 U

Result Qualifier

%Recovery

RL

0.00202

0.00202

0.00202

0.00403

0.00202

0.00403

Limits

70 - 130

70 - 130

RL

0.00403

MDL

MDL Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

05/04/22 12:55

05/04/22 12:55

05/04/22 12:55

05/04/22 12:55

05/04/22 12:55

05/04/22 12:55

Prepared

05/04/22 12:55

05/04/22 12:55

Prepared

Job ID: 890-2257-1 SDG: 03A1987005

Client Sample ID: PH01

Date Collected: 04/26/22 14:10 Date Received: 04/28/22 10:40

Sample Depth: 1

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-2257-1

Analyzed

05/06/22 17:53

05/06/22 17:53

05/06/22 17:53

05/06/22 17:53

05/06/22 17:53

05/06/22 17:53

Analyzed

05/06/22 17:53

05/06/22 17:53

Analyzed

05/09/22 15:19

Matrix: Solid

2 57-1 Solid	
	5
Dil Fac	
1	
1	
1	
1	
1	2
1	0
Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13
1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/03/22 08:38	
- Method: 8015B NM - Diesel Rang	e Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 18:23	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 18:23	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 18:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	95		70 - 130				05/02/22 08:30	05/02/22 18:23	
o-Terphenyl	93		70 - 130				05/02/22 08:30	05/02/22 18:23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	356		4.98		mg/Kg			05/04/22 16:26	
Client Sample ID: PH01							Lab Sar	nple ID: 890-2	2257-2
Date Collected: 04/26/22 14:15								Matri	x: Solic
Date Received: 04/28/22 10:40									
Sample Depth: 4									

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		05/04/22 12:55	05/06/22 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:55	05/06/22 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:55	05/06/22 18:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/04/22 12:55	05/06/22 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/22 12:55	05/06/22 18:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/04/22 12:55	05/06/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				05/04/22 12:55	05/06/22 18:18	1

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Released to Imaging: 5/23/2023 8:29:46 AM

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Client Sample Results

Job ID: 890-2257-1 SDG: 03A1987005

Client Sample ID: PH01

Date Collected: 04/26/22 14:15 Date Received: 04/28/22 10:40

Sample Depth: 4

Client: Ensolum

Lab Sample ID: 890-2257-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	89		70 - 130				05/04/22 12:55	05/06/22 18:18	
Method: Total BTEX - Total BTE	X Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/09/22 15:19	
	0								
Method: 8015 NM - Diesel Rang						_	- ·		
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			05/03/22 08:38	
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 18:45	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 18:45	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 18:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				05/02/22 08:30	05/02/22 18:45	
o-Terphenyl	105		70 - 130				05/02/22 08:30	05/02/22 18:45	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride			4.97		mg/Kg			05/04/22 16:45	

Date Collecte Date Received: 04/28/22 10:40 Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 05/04/22 12:55 05/06/22 20:01 Toluene <0.00199 U 0.00199 05/04/22 12:55 05/06/22 20:01 mg/Kg 1 Ethylbenzene <0.00199 U 0.00199 mg/Kg 05/04/22 12:55 05/06/22 20:01 05/04/22 12:55 05/06/22 20:01 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 1 o-Xylene <0.00199 U 0.00199 mg/Kg 05/04/22 12:55 05/06/22 20:01 1 Xylenes, Total <0.00398 U 0.00398 mg/Kg 05/04/22 12:55 05/06/22 20:01 1 %Recovery Surrogate Qualifier Limits Dil Fac Prepared Analvzed S1+ 70 - 130 05/04/22 12:55 4-Bromofluorobenzene (Surr) 157 05/06/22 20:01 1 1,4-Difluorobenzene (Surr) 76 70 - 130 05/04/22 12:55 05/06/22 20:01 1 Method: Total BTEX - Total BTEX Calculation Analyte RL MDL Unit D Dil Fac Result Qualifier Prepared Analyzed Total BTEX <0.00398 U 0.00398 05/09/22 15:19 mg/Kg 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 05/03/22 08:38 1

Job ID: 890-2257-1 SDG: 03A1987005

Matrix: Solid

Lab Sample ID: 890-2257-3

Lab Sample ID: 890-2257-4

Client Sample Results

Client: Ensolum
Project/Site: North Brushy Draw 35-2H

Client Sample ID: PH02

Date Collected: 04/26/22 14:00 Date Received: 04/28/22 10:40

Date Received: 04/28/22 10:40 Sample Depth: 1									
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 19:07	1

Oll Range Organics (Over C28-C36)	<50.0 U	J 50.0	mg/Kg	05/02/22 08:30	05/02/22 19:07
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 106 104	Qualifier Limits 70 - 130 70 - 130		Prepared 05/02/22 08:30 05/02/22 08:30	Analyzed 05/02/22 19:07 05/02/22 19:07

Method: 300.0 - Anions	, Ion Chromatography - Soluble
Analyte	Result Qualifier

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350	4.95	mg/Kg			05/04/22 16:52	1

Client Sample ID: PH02

Date Collected: 04/26/22 14:05

Date Received: 04/28/22 10:40

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		05/04/22 12:55	05/06/22 20:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/22 12:55	05/06/22 20:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/22 12:55	05/06/22 20:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/22 12:55	05/06/22 20:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/22 12:55	05/06/22 20:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/22 12:55	05/06/22 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	185	S1+	70 - 130				05/04/22 12:55	05/06/22 20:26	1
1,4-Difluorobenzene (Surr)	87		70 - 130				05/04/22 12:55	05/06/22 20:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D		Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range	•	0) (GC)	0.00398		mg/Kg		Prepared	05/09/22 15:19	1
Total BTEX Method: 8015 NM - Diesel Range Analyte	Organics (DR	<mark>O) (GC)</mark> Qualifier	0.00398	MDL	mg/Kg	 	Prepared		
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result <49.9 ge Organics (D) Result	O) (GC) Qualifier U RO) (GC) Qualifier			mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared	05/09/22 15:19 Analyzed 05/03/22 08:38 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (DR 	O) (GC) Qualifier U RO) (GC) Qualifier	RL 49.9	MDL	mg/Kg Unit mg/Kg		Prepared	05/09/22 15:19 Analyzed 05/03/22 08:38	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <49.9 ge Organics (D) Result	O) (GC) Qualifier U RO) (GC) Qualifier U		MDL	mg/Kg Unit mg/Kg Unit		Prepared	05/09/22 15:19 Analyzed 05/03/22 08:38 Analyzed	Dil Fac 1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <49.9 ge Organics (D) Result <49.9	D) (GC) Qualifier U RO) (GC) Qualifier U	RL 49.9 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg		Prepared Prepared 05/02/22 08:30	05/09/22 15:19 Analyzed 05/03/22 08:38 Analyzed 05/02/22 19:29	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	e Organics (DR Result <49.9 ge Organics (D) Result <49.9 <49.9	D) (GC) Qualifier U RO) (GC) Qualifier U U U	RL 49.9 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 05/02/22 08:30 05/02/22 08:30	05/09/22 15:19 Analyzed 05/03/22 08:38 Analyzed 05/02/22 19:29 05/02/22 19:29	Dil Fac 1 Dil Fac 1 1

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05/02/22 19:29

05/02/22 08:30

1

1

1

o-Terphenyl

70 - 130

99

Client Sample Results										
Client: EnsolumJob ID: 890-2257-1Project/Site: North Brushy Draw 35-2HSDG: 03A1987005										2
Client Sample ID: PH02 Date Collected: 04/26/22 14:05							Lab Sa	mple ID: 890- Matri	2257-4 x: Solid	3
Date Received: 04/28/22 10:40 Sample Depth: 4										4
Method: 300.0 - Anions, Ion Chrom Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	466		4.96		mg/Kg		1.000.00	05/04/22 16:58	1	6
										7
										8
										9
										10
										11
										12
										13
										14

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

				Percent Surrogate Recovery (Acceptance
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2241-A-1-G MS	Matrix Spike	121	85	
00-2241-A-1-H MSD	Matrix Spike Duplicate	137 S1+	78	
0-2257-1	PH01	168 S1+	81	
-2257-2	PH01	149 S1+	89	
-2257-3	PH02	157 S1+	76	
2257-4	PH02	185 S1+	87	
80-24825/1-A	Lab Control Sample	169 S1+	90	
D 880-24825/2-A	Lab Control Sample Dup	164 S1+	89	
880-24825/5-A	Method Blank	146031	263 S1+	
		S1+		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

				Percent Surrogat
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2257-1	PH01	95	93	
890-2257-2	PH01	107	105	
890-2257-3	PH02	106	104	
890-2257-4	PH02	103	99	
890-2261-A-1-F MS	Matrix Spike	102	91	
890-2261-A-1-G MSD	Matrix Spike Duplicate	100	90	
LCS 880-24605/2-A	Lab Control Sample	104	96	
LCSD 880-24605/3-A	Lab Control Sample Dup	99	93	
MB 880-24605/1-A	Method Blank	93	94	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2257-1 SDG: 03A1987005

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Sample ID: Metho	od Blank
Prep Type:	Total/NA
Prep Batc	h: 24825
Analyzed	Dil Fac
5 05/06/22 14:02	1
5 05/06/22 14:02	1
5 05/06/22 14:02	1
5 05/06/22 14:02	1
5 05/06/22 14:02	1
5 05/06/22 14:02	1
Analyzed	Dil Fac
5 05/06/22 14:02	1
5 05/06/22 14:02	1
12:5	12:55 05/06/22 14:02

Analysis Batch: 24955

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1133		mg/Kg		113	70 - 130	
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1240		mg/Kg		124	70 - 130	
m-Xylene & p-Xylene	0.200	0.2510		mg/Kg		126	70 - 130	
o-Xylene	0.100	0.1212		mg/Kg		121	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-24825/2-A

Matrix: Solid

Analysis Batch: 24955							Prep	Batch:	24825
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	4	35
Toluene	0.100	0.1031		mg/Kg		103	70 - 130	3	35
Ethylbenzene	0.100	0.1189		mg/Kg		119	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2400		mg/Kg		120	70 - 130	4	35
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-2241-A-1-G MS

Matrix: Solid

Analysis Batch: 24955									Prep	Batch: 24825
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.101	< 0.00202	U F1	mg/Kg		0.6	70 - 130	
Toluene	<0.00200	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 24825

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

MS MS

0.05543 F1

0.1173 F1

0.05796 F1

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.101

0.202

0.101

Limits 70 - 130

70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: 890-2241-A-1-G MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 24955

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Sample Sample

<0.00200 UF1

<0.00400 UF1

<0.00200 UF1

121

85

%Recovery

MS MS

137 S1+

94

78

Qualifier

Result Qualifier

Job ID: 890-2257-1 SDG: 03A1987005

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

Client Sample ID: Method Blank

05/02/22 11:06

Client Sample ID: Lab Control Sample

05/02/22 08:30

Prep Type: Total/NA

Prep Batch: 24605

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

55

58

57

D

Matrix: Solid Analysis Batch: 24955

Lab Sample ID: 890-2241-A-1-H MSD

Analysis Batch: 24955									Prep	Batch:	24825	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	< 0.00200	U F1 F2	0.101	0.05097	F1 F2	mg/Kg		51	70 - 130	195	35	
Toluene	<0.00200	U F1	0.101	0.05046	F1	mg/Kg		50	70 - 130	NC	35	ī
Ethylbenzene	<0.00200	U F1	0.101	0.05264	F1	mg/Kg		52	70 - 130	5	35	
m-Xylene & p-Xylene	<0.00400	U F1	0.201	0.1084	F1	mg/Kg		54	70 - 130	8	35	i
o-Xylene	<0.00200	U F1	0.101	0.05612	F1	mg/Kg		56	70 - 130	3	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									

Mathadi 00450 NM Dises			
Method: 8015B NM - Diese	i Range Org	anics (DRU)) (GC)

Lab Sample ID: MB 880-24605/1-A Matrix: Solid Analysis Batch: 24615

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/02/22 08:30	05/02/22 11:06	1

70 - 130

Lab Sample ID: LCS 880-24605/2-A Matrix: Solid alvele Detek 04045

o-Terphenyl

Analysis Batch: 24615							Prep	Batch: 24605
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1078		mg/Kg		108	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	895.7		mg/Kg		90	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 24825

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: LCS 880-24	605/2-A						Client	t Sample	ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep T	ype: Tot	tal/NA
Analysis Batch: 24615									Prep	Batch:	24605
	LCS	105									
Surrogate	%Recovery		Limits								
1-Chlorooctane		duumer	70 - 130								
o-Terphenyl	96		70 - 130								
			10-100								
Lab Sample ID: LCSD 880-2	4605/3-A					Clier	nt San	nple ID:	Lab Contro	I Sample	e Dup
Matrix: Solid									Prep T	ype: Tot	tal/NA
Analysis Batch: 24615										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1013		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	840.3		mg/Kg		84	70 - 130	6	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	93		70 - 130								
Analysis Batch: 24615	•	Sample	Spike		MS		_		%Rec	Batch:	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	·	
Gasoline Range Organics (GRO)-C6-C10	<50.0		1000	1411	F1	mg/Kg		141	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	0	1000	1028		mg/Kg		103	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: 890-2261-A	-1-G MSD					Cli	ient S	ample IC): Matrix Sp	oike Dup	licate
Matrix: Solid									Prep T	ype: Tot	tal/NA
Analysis Batch: 24615										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Analyte	Result	Quanner					_				
Gasoline Range Organics	Result <50.0		998	1401	F1	mg/Kg		140	70 - 130	1	20
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U F1	998 998	1401 1000	F1	mg/Kg mg/Kg		140 100	70 ₋ 130 70 ₋ 130	1 3	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0	U F1			F1						
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0	U F1 U MSD			F1						
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U F1 U MSD	998		F1						20 20

o-Terphenyl 90 70 - 130
QC Sample Results

Job ID: 890-2257-1 SDG: 03A1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24652/1-A Matrix: Solid												Client S	ample ID Prei	: метпос 5 Туре: S	
Analysis Batch: 24754														s type. c	
		мв	МВ												
Analyte	Re	esult (Qualifier		RL		MDL	Unit		D	Pi	repared	Anal	yzed	Dil Fa
Chloride	<	:5.00 l	U		5.00			mg/Kg					05/04/2	2 15:29	
Lab Sample ID: LCS 880-24652/2-A										Clie	ent	Sample	ID: Lab (Control S	Sample
Matrix: Solid														o Type: S	
Analysis Batch: 24754															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride				250		272.5			mg/Kg			109	90 - 110		
Lab Sample ID: LCSD 880-24652/3-/	4								Cli	ent S	am	ple ID: I	Lab Conti	ol Samp	le Dup
Matrix: Solid													Pre	o Type: S	Soluble
Analysis Batch: 24754															
				Spike		LCSD	LCSI	C					%Rec		RPI
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		253.2			mg/Kg			101	90 - 110	7	20
Lab Sample ID: 890-2256-A-6-B MS												Client	Sample I	D: Matrix	c Spike
Matrix: Solid													Pre	o Type: S	Soluble
Analysis Batch: 24754															
	Sample	Samp	le	Spike		MS	MS						%Rec		
Analyte	Result		ier	Added		Result		ifier	Unit		D	%Rec	Limits		
Chloride	606	F1		250		816.9	F1		mg/Kg			85	90 - 110		
Lab Sample ID: 890-2256-A-6-C MS	C									Client	Sa	mple ID	: Matrix S	Spike Du	plicate
Matrix: Solid												-	Pre	o Type: S	Soluble
Analysis Batch: 24754															
	Sample	Samp	le	Spike		MSD	MSD						%Rec		RPI
Analyte	Result	Qualif	ier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Job ID: 890-2257-1 SDG: 03A1987005

GC VOA

Prep Batch: 24825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2257-1	PH01	Total/NA	Solid	5035	
890-2257-2	PH01	Total/NA	Solid	5035	
890-2257-3	PH02	Total/NA	Solid	5035	
390-2257-4	PH02	Total/NA	Solid	5035	
MB 880-24825/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-24825/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-24825/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
390-2241-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
390-2241-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24955

LCSD 880-24825/2-A	Lab Control Sample Dup	Iotal/NA	Solid	5035		
890-2241-A-1-G MS	Matrix Spike	Total/NA	Solid	5035		8
890-2241-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
Analysis Batch: 2495	5					9
	5					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	10
890-2257-1	PH01	Total/NA	Solid	8021B	24825	
890-2257-2	PH01	Total/NA	Solid	8021B	24825	11
890-2257-3	PH02	Total/NA	Solid	8021B	24825	
890-2257-4	PH02	Total/NA	Solid	8021B	24825	12
MB 880-24825/5-A	Method Blank	Total/NA	Solid	8021B	24825	
LCS 880-24825/1-A	Lab Control Sample	Total/NA	Solid	8021B	24825	40
LCSD 880-24825/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24825	13
890-2241-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	24825	
890-2241-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24825	14

Analysis Batch: 25131

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2257-1	PH01	Total/NA	Solid	Total BTEX	-
890-2257-2	PH01	Total/NA	Solid	Total BTEX	
890-2257-3	PH02	Total/NA	Solid	Total BTEX	
890-2257-4	PH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2257-1	PH01	Total/NA	Solid	8015NM Prep	
890-2257-2	PH01	Total/NA	Solid	8015NM Prep	
890-2257-3	PH02	Total/NA	Solid	8015NM Prep	
890-2257-4	PH02	Total/NA	Solid	8015NM Prep	
MB 880-24605/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24605/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2261-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2261-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2257-1	PH01	Total/NA	Solid	8015B NM	24605
890-2257-2	PH01	Total/NA	Solid	8015B NM	24605
890-2257-3	PH02	Total/NA	Solid	8015B NM	24605
890-2257-4	PH02	Total/NA	Solid	8015B NM	24605
MB 880-24605/1-A	Method Blank	Total/NA	Solid	8015B NM	24605
LCS 880-24605/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24605

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

GC Semi VOA (Continued)

Analysis Batch: 24615 (Continued)

Lab Sample ID LCSD 880-24605/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 24605
890-2261-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	24605
890-2261-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24605
Analysis Batch: 24697					

Analysis Batch: 24697

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2257-1	PH01	Total/NA	Solid	8015 NM	
890-2257-2	PH01	Total/NA	Solid	8015 NM	
890-2257-3	PH02	Total/NA	Solid	8015 NM	
890-2257-4	PH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2257-1	PH01	Soluble	Solid	DI Leach	
890-2257-2	PH01	Soluble	Solid	DI Leach	
890-2257-3	PH02	Soluble	Solid	DI Leach	
890-2257-4	PH02	Soluble	Solid	DI Leach	
MB 880-24652/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24652/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24652/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2256-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2256-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 24754

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2257-1	PH01	Soluble	Solid	300.0	24652
890-2257-2	PH01	Soluble	Solid	300.0	24652
890-2257-3	PH02	Soluble	Solid	300.0	24652
890-2257-4	PH02	Soluble	Solid	300.0	24652
MB 880-24652/1-A	Method Blank	Soluble	Solid	300.0	24652
LCS 880-24652/2-A	Lab Control Sample	Soluble	Solid	300.0	24652
LCSD 880-24652/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24652
890-2256-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	24652
890-2256-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24652

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Job ID: 890-2257-1 SDG: 03A1987005

Job ID: 890-2257-1 SDG: 03A1987005

Lab Sample ID: 890-2257-1 Matrix: Solid

Lab Sample ID: 890-2257-2

Date Collected: 04/26/22 14:10 Date Received: 04/28/22 10:40

Client Sample ID: PH01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 17:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25131	05/09/22 15:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24697	05/03/22 08:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/04/22 16:26	СН	XEN MID

Client Sample ID: PH01

Date Collected: 04/26/22 14:15

Date Received: 04/28/22 10:40

	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	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 18:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25131	05/09/22 15:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24697	05/03/22 08:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 18:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/04/22 16:45	СН	XEN MID

Client Sample ID: PH02

Date Collected: 04/26/22 14:00

Date Received: 04/28/22 10:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 20:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25131	05/09/22 15:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24697	05/03/22 08:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 19:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/04/22 16:52	СН	XEN MID

Client Sample ID: PH02 Date Collected: 04/26/22 14:05 Date Received: 04/28/22 10:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24825	05/04/22 12:55	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/06/22 20:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25131	05/09/22 15:19	AJ	XEN MID

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Matrix: Solid

Lab Sample ID: 890-2257-4

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Lab Sample ID: 890-2257-3 Matrix: Solid

Matrix: Solid

Job ID: 890-2257-1

SDG: 03A1987005

Matrix: Solid

Lab Sample ID: 890-2257-4

Lab Chronicle

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: PH02 Date Collected: 04/26/22 14:05

Date Received: 04/28/22 10:40

	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			24697	05/03/22 08:38	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 19:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/04/22 16:58	СН	XEN MID

Laboratory References:

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

	A	ccreditation/C	ertification Summary		
Client: Ensolum Project/Site: North Brus	shy Draw 35-2H			Job ID: 890-2257-1 SDG: 03A1987005	2
Laboratory: Eurofi					
Unless otherwise noted, all a	nalytes for this laboratory we	re covered under each acc	reditation/certification below.		
Authority	Pro	ogram	Identification Number	Expiration Date	
Texas	NE	LAP	T104704400-21-22	06-30-22	E
The following analytes a	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not off					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13

Client: Ensolum

Job ID: 890-2257-1 SDG: 03A1987005

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
)I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2257-1

JOD ID: 890-2257-1
SDG: 03A1987005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-2257-1	PH01	Solid	04/26/22 14:10	04/28/22 10:40	1	
890-2257-2	PH01	Solid	04/26/22 14:15	04/28/22 10:40	4	
890-2257-3	PH02	Solid	04/26/22 14:00	04/28/22 10:40	1	5
890-2257-4	PH02	Solid	04/26/22 14:05	04/28/22 10:40	4	
						8
						9
						2
						12
						1

-	Page of	nents	elds RRC Superfund		PST/UST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	0	H_LL: H_ H_O ;: H , NaOH: Na H_2S0 4; H , NaOH: Na	H ₃ PO ₄ :HP	NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	Incident ID:	+86thihid2.UBN							Sn U V Zn 470 / 7471			Date/Time	4/26/22 10:40	-		Revised Date: 08/25/2020 Rev. 2020.2
Work Order No:	www.xenco.com	Work Order Comments	Program: UST/PST PRP Brownfields	State of Project:	Reporting: Level II 🗌 Level III 🗍 PST/	Deliverables: EDD ADaPT		N	<u> </u>		H.	Na			Nex			2							n Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V g Tl U Hg: 1631/245.1/7470 /74:		lously negotiated.	Received by: (Signature)	N-JU-			
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		Tim Caler	P	S Buena Vista Dr.	ad, NM SBLIE		ANALYSIS REQUEST			(9	3 1-	e sh	3 4	345	=)	914J X318	-		XX						AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	nco, its affiliates and subcontractors. It assigns standard terms and recoders the state of the subcontractors are due to circumstances bewond	unce by the chemic in accurations are one or consummer of the second unless pre- Xenco, but not analyzed. These terms will be enforced unless pre-	Date/Time Relinquished by: (Signature)	4/28/22 Coroc are Byers	4	٥	
Chail Houston, TX (281) 7 Midland, TX (432) 704 EL Paso, TX (915) 58 Hobbs, NM (575) 39		Bill to lif different!			e ZIP:	abyers@ensolum.com	Turn Around	Rush Code	5 DA		Po No	-	ed	7	-1-	Depth Grab/ # of # of Cont	-	X - 1 , J	X - 1 .1	H, K .	1003		đ	2	 Texas 11 6010 : 880	er from client company to Eurofins Xe	numery for any rosses of expenses income of the functions income of the submitted to Eurofins	() Dat	4/28/2			
ins Environment Testing Xenco		20.02	FINDA DYELS	mont Portes Hwu		1	Merth Britshy Draw 35-24 Turn A	Kout	, NM Due Date:	TAT starts the day received by Interface Interface Interface the lab. if received by 4:30pm	Temp Blank: No Wet Ice:	Kee No Thermometer ID:	Yes No N/A Correction Factor:	Yes No (N/A) Temperature Reading:	Corrected Temperature:	ation Matrix Date Time Sampled	÷	5 4/10/22 1415	2 WW/12/14/00	5 4/26/22 1405					Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Circle Method(c) and Metal(c) to be analyzed TCIP / SPLF	itutes a valid p	of service. Eurofins Xenco will be lable only for the cost of samples and shall not assume any responsibility for any house of expension income and use on the contract of the cost of samples and shall 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	signature) Received by: (Signature)	- Anne Buers	1 1		
🐝 eurofins			Project Manager:	T	e ZIP:		Project Name:	er:		Sampler's Name:		Samples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	PHEI	PHA	20Hd	PH02					Total 200.7 / 6010 Circle Method(c) an	Notice: Signature of this docum	of service. Eurofins Xenco will t of Eurofins Xenco. A minimum (Relinquished by: (Signature)	- Au	~	s	

Received by OCD: 1/25/2023 12:00:26 AM

	Relinquished by Date	Kellinduished by	(Im (in the his m))		r in in Oniei (specify)		Possible Hazard Identification	Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC attention immediately.			PH02 (890-2257-4)	PH02 (890-2257-3)	PH01 (890-2257-2)	PH01 (890-2257-1)		Sample Identification - Client ID (Lab ID) San	Site SSOW#	ect Name th Brushy Draw 35-2H	Email WO #	, 704-5440(Tel)	State Zip: TX 79701	City Midland	Address Due 1211 W Florida Ave 5/4/	v s Environment Testing South Centr	Client Contact: Phone Shipping/Receiving	ormation (Sub Contract Lab)	Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199
	Date/Time [.]	Date/Time	Date/ Ime	Date				ng South Central, LLC places ti r analysis/tests/matrix being an. LC attention immediately If all			4/26/22 14 05 Mountain	4/26/22 14 00 Mountain	4/26/22 14 15 Mountain	4/26/22 14 10 Mountain	63	Sample Date Time	W#	Project # 89000084	#	Ϋ́Τ.		TAT Requested (days):	Due Date Requested 5/4/2022		тө	pier	
	Company	Company	Company					he ownership of method analy alyzed the samples must be s requested accreditations are i			Solid	Solid	Solid	Solid	00	Sample Matrix Type (w=water G=grab) BT=Tissue, A=Air)									E-Mail [.] Jessic	Lab PM Krame	Chain of Custody Record
Cooler Temperatura/a	Received by	Received by:	Received by	Time:	special instructions/	Return To Client	Samnle Disnosal	te & accreditation complia hipped back to the Eurofir current to date, return the			× × × ×	× × ×	x x x	X X X	X	Field Filtered Perform MS/ 8015MOD_Cal 8015MOD_NM 300_ORGFM_2	MSD (Y c /8016NN	es or I_S_Pr	No) ep Full	трн				Accreditations Required (See note): NELAP - Texas	E-Mail [.] Jessica Kramer@et.eurofinsus	Lab PM Kramer Jessica	ecord
		(AT P		ts/QC Requirements	Jient Dis	signed unaint of unstody	ince upon out subcontrac is Environment Testing S signed Chain of Custody			 × ×	× ×	××	××		8021B/5035FP Total_BTEX_G							Analysis Requ	te):	com	C	
	Date/Time	Date/Time	PaterTime	Method of Shipment		Disposal By Lab	ent to date, return the signed unlarit of clustedy attesting to said complicance to Eurorins Environ Sample Discosal (A fee may be assessed if samples are refained lowner	xt laboratories. This samp South Central LLC laborat attesting to said complica															Requested		State of Origin New Mexico	Carrier Tracking No(s)	
	e.	Ø	29122 (02			Archive For	ance to Eurorins Environment	ole shipment is forwarded und tory or other instructions will t ance to Eurofins Environment		and a second		4		4		Total Numbe Specia	r of col Other	EDA	<u> </u>	Maria anti	D Nitric Acid	A - HCL B NaOH C Zn Acetate	Preservation Codes	Job # [.] 890-2257-1	Page [.] Page 1 of 1	COC No 890-733 1	🕼 eurofins
1 + 00	Company	Company	20 Company			Months	it lesting South Central LLC.	der chain-of-custody If the be provided Any changes to t Testing South Central 11 C								Special Instructions/Note.		W pH 4-5 Z other (specify)	< ⊂ ·		P Na2O4S	M Hexane	Codes				NS Environment Testing America

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12 13

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Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2257 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.	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 Released to Imaging: 5/23/2023 8:29:46 AM 14

Job Number: 890-2257-1 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Job Number: 890-2257-1 SDG Number: 03A1987005

List Source: Eurofins Midland

List Creation: 04/29/22 10:53 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2257 List Number: 2 Creator: Rodriguez, Leticia

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

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Received by OCD: 1/25/2023 12:00:26 AM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2255-1

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: North Brushy Draw 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

RAMER

Authorized for release by: 4/29/2022 7:42:57 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Released to Imaging: 5/23/2023 8:29:46 AM

Laboratory Job ID: 890-2255-1 SDG: 03A1987005

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EDL

LOD

LOQ

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ TNTC

RL

ML

Client: Ensolu	m Job ID: 890-2255-	.1
	lorth Brushy Draw 35-2H SDG: 03A198700	
Qualifiers		- 3
GC VOA		_
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	_
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA	N	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	-
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	- 9
Glossary		- 1
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
a	Listed under the "D" column to designate that the result is reported on a dry weight basis	- 1
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	4
DER	Duplicate Error Ratio (normalized absolute difference)	1
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
	Detection Limit (DoD/DOE) Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

4

5

Job ID: 890-2255-1 SDG: 03A1987005

Job ID: 890-2255-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2255-1

Receipt

The samples were received on 4/28/2022 10:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24201 and analytical batch 880-24380 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24267 and analytical batch 880-24469 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

RL

MDL Unit

D

Prepared

Job ID: 890-2255-1 SDG: 03A1987005

Client Sample ID: FS22

Date Collected: 04/27/22 09:15 Date Received: 04/28/22 10:41

Sample Depth: 14

Client: Ensolum

Analyte

Lab Sample ID: 890-2255-1

Analyzed

Jie	ID:	090-22	1-66.
		Matrix:	Solid

Benzene	<0.00198	U	0.00198		mg/Kg		04/28/22 17:00	04/29/22 12:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/28/22 17:00	04/29/22 12:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/28/22 17:00	04/29/22 12:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/28/22 17:00	04/29/22 12:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/28/22 17:00	04/29/22 12:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/28/22 17:00	04/29/22 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/28/22 17:00	04/29/22 12:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/28/22 17:00	04/29/22 12:13	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/29/22 15:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/29/22 20:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/29/22 11:00	04/29/22 13:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 11:00	04/29/22 13:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 11:00	04/29/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/29/22 11:00	04/29/22 13:46	1
o-Terphenyl	108		70 - 130				04/29/22 11:00	04/29/22 13:46	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.4		5.00		mg/Kg			04/29/22 14:37	1
Client Sample ID: FS21							Lab Sar	nple ID: 890-	2255-2
Date Collected: 04/27/22 10:50									x: Solid
Date Received: 04/28/22 10:41									
Sample Depth: 14 - 15									
Method: 8021B - Volatile Organic	Compounds	(60)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/22 17:00	04/29/22 12:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/22 17:00	04/29/22 12:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/22 17:00	04/29/22 12:33	1
m Xylono & n Xylono	~0.00401		0.00401		malka		04/28/22 17:00	01/20/22 12:33	

m-Xylene & p-Xylene <0.00401 U 0.00401 04/28/22 17:00 04/29/22 12:33 mg/Kg 1 o-Xylene <0.00200 U 0.00200 04/28/22 17:00 04/29/22 12:33 mg/Kg 1 Xylenes, Total <0.00401 U 0.00401 mg/Kg 04/28/22 17:00 04/29/22 12:33 1 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 103 70 - 130 04/28/22 17:00 04/29/22 12:33 1

Eurofins Carlsbad

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Client Sample Results

Job ID: 890-2255-1 SDG: 03A1987005

Client Sample ID: FS21

Date Collected: 04/27/22 10:50 Date Received: 04/28/22 10:41

Sample Depth: 14 - 15

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130				04/28/22 17:00	04/29/22 12:33	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/29/22 15:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/29/22 20:36	1
Analyte Gasoline Range Organics	Result <50.0	Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/29/22 11:00	Analyzed 04/29/22 14:08	Dil Fac
-							·		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/29/22 11:00	04/29/22 14:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/29/22 11:00	04/29/22 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				04/29/22 11:00	04/29/22 14:08	1
o-Terphenyl	86		70 - 130				04/29/22 11:00	04/29/22 14:08	1
-	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro	Jinatography								
Method: 300.0 - Anions, Ion Chro Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Carlsbad

Released to Imaging: 5/23/2023 8:29:46 AM

Lab Sample ID: 890-2255-2

Matrix: Solid

5

Job ID: 890-2255-1 SDG: 03A1987005

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-2225-A-2-G MS	Matrix Spike	104	99		
890-2225-A-2-H MSD	Matrix Spike Duplicate	106	100		6
890-2255-1	FS22	102	94		
890-2255-2	FS21	103	96		
LCS 880-24201/1-A	Lab Control Sample	100	98		
LCSD 880-24201/2-A	Lab Control Sample Dup	101	99		8
MB 880-24201/5-A	Method Blank	105	95		U
MB 880-24268/5-A	Method Blank	90	91		0
					9
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-14112-A-1-B MS	Matrix Spike	77	71
880-14112-A-1-C MSD	Matrix Spike Duplicate	74	65 S1-
890-2255-1	FS22	101	108
890-2255-2	FS21	82	86
LCS 880-24267/2-A	Lab Control Sample	75	71
LCSD 880-24267/3-A	Lab Control Sample Dup	78	74
MB 880-24267/1-A	Method Blank	95	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Lab Sample ID: MB 880-24201/5-A

Matrix: Solid								Prep Type: 1	otal/NA
Analysis Batch: 24380								Prep Batch	n: 24201
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/22 15:01	04/29/22 04:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/25/22 15:01	04/29/22 04:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/22 15:01	04/29/22 04:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/22 15:01	04/29/22 04:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/22 15:01	04/29/22 04:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/22 15:01	04/29/22 04:40	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/25/22 15:01	04/29/22 04:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/25/22 15:01	04/29/22 04:40	1

Lab Sample ID: LCS 880-24201/1-A Matrix: Solid

Analysis Batch: 24380

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08999		mg/Kg		90	70 - 130	
Toluene	0.100	0.08943		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1811		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.09261		mg/Kg		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-24201/2-A

Matrix: Solid

Analysis Batch: 24380							Prep	Batch:	24201
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09563		mg/Kg		96	70 - 130	6	35
Toluene	0.100	0.09619		mg/Kg		96	70 - 130	7	35
Ethylbenzene	0.100	0.09690		mg/Kg		97	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1976		mg/Kg		99	70 - 130	9	35
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	10	35

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

Lab Sample ID: 890-2225-A-2-G MS

Matrix: Solid

Analysis Batch: 24380									Prep	Batch: 24201
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0994	0.08037		mg/Kg		81	70 - 130	
Toluene	<0.00200	U F1	0.0994	0.08058		mg/Kg		80	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

5

6 7

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 24201

QC Sample Results

Job ID: 890-2255-1 SDG: 03A1987005

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

	-2-G MS									Client S	Sample ID:		
Matrix: Solid												ype: To	
Analysis Batch: 24380											Prep	Batch:	2420 [,]
	Sample S	•	Spike	MS	MS						%Rec		
Analyte	Result	Qualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00200	U F1	0.0994	0.07780			mg/Kg			78	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.1398	F1		mg/Kg			69	70 - 130		
o-Xylene	<0.00200	U	0.0994	0.08703			mg/Kg			86	70 - 130		
		MS											
Surrogate		Qualifier	Limits										
4-Bromofluorobenzene (Surr)	104		70 - 130										
1,4-Difluorobenzene (Surr)	99		70 - 130										
ab Sample ID: 890-2225-A-	-2-H MSD							Clie	nt Sa	mple ID:	Matrix Sp		
Matrix: Solid												ype: To	
Analysis Batch: 24380												Batch:	
	Sample S	Sample	Spike	MSD	MSD)					%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00200	U F1	0.0992	0.06553	F1		mg/Kg			66	70 - 130	20	3
Foluene	<0.00200	U F1	0.0992	0.06660	F1		mg/Kg			66	70 - 130	19	3
Ethylbenzene	<0.00200	U F1	0.0992	0.06453	F1		mg/Kg			65	70 - 130	19	3
n-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1259	F1		mg/Kg			62	70 - 130	10	3
o-Xylene	<0.00200	U	0.0992	0.07286			mg/Kg			71	70 - 130	18	3
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
4-Bromofluorobenzene (Surr)	106		70 - 130										
1,4-Difluorobenzene (Surr)	100		70 - 130										
										Client Sa	ample ID: N	Method	Blan
Lab Sample ID: MB 880-2420	68/5-A										Prop T	ype: To	tal/N
· · · · · · · · · · · · · · · · · · ·	68/5-A										Fieb I	ype. 10	
Matrix: Solid	68/5-A											Batch:	
Matrix: Solid		MB MB											
Matrix: Solid Analysis Batch: 24380		MB MB sult Qualif	ier R	L	MDL	Unit		D	Pi	repared		Batch:	2426
Matrix: Solid Analysis Batch: 24380 ^{Analyte}		sult Qualif	ier R 0.0020		MDL	Unit mg/Kg		<u>D</u>		repared 6/22 15:59	Prep	Batch:	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene	Re : <0.002	sult Qualif		0	MDL			<u>D</u>	04/2	•	Prep Analyze	Batch: ed 18:04	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Foluene	Res <0.002 <0.002	sult Qualif	0.0020	0	MDL	mg/Kg		<u>D</u>	04/2	6/22 15:59	Prep Analyze 04/28/22 1	Batch: ed 18:04 18:04	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Foluene Ethylbenzene	Res <0.002 <0.002 <0.002	sult Qualif 200 U 200 U	0.0020	0 0 0	MDL	mg/Kg mg/Kg mg/Kg		<u>D</u>	04/2 04/2 04/2	6/22 15:59 6/22 15:59	Prep Analyze 04/28/22 1 04/28/22 1	Batch: ed 18:04 18:04 18:04	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Res <0.002 <0.002 <0.002 <0.004	sult Qualif 200 U 200 U 200 U	0.0020 0.0020 0.0020	0 0 0 0	MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	04/20 04/20 04/20 04/20	6/22 15:59 6/22 15:59 6/22 15:59	Prep Analyze 04/28/22 1 04/28/22 1 04/28/22 1	Batch: ed 18:04 18:04 18:04 18:04	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Toluene Ethylbenzene n-Xylene & p-Xylene p-Xylene	Res <0.002 <0.002 <0.004 <0.004 <0.002	sult Qualif 200 U 200 U 200 U 200 U 400 U	0.0020 0.0020 0.0020 0.0020 0.0040	0 0 0 0 0	MDL	mg/Kg mg/Kg mg/Kg		<u>D</u>	04/20 04/20 04/20 04/20	6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59	Prep Analyze 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1	ed 18:04 18:04 18:04 18:04 18:04 18:04	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene p-Xylene	Res <0.002 <0.002 <0.002 <0.004 <0.002 <0.004	sult Qualif 200 U	0.0020 0.0020 0.0020 0.0020 0.0040 0.0020	0 0 0 0 0	MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	04/20 04/20 04/20 04/20	6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59	Prep Analyze 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1	ed 18:04 18:04 18:04 18:04 18:04 18:04	2426
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Toluene Ethylbenzene n-Xylene & p-Xylene o-Xylene Kylenes, Total	Res <0.002 <0.002 <0.002 <0.004 <0.002 <0.004	Sult Qualif 200 U 400 U 400 U 400 U 400 U	0.0020 0.0020 0.0020 0.0040 0.0020 0.0040	0 0 0 0 0	MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	04/20 04/20 04/20 04/20 04/20	6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59	Prep Analyze 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1	Batch: ed 18:04 18:04 18:04 18:04 18:04 18:04 18:04 18:04	2426 Dil Fa
Matrix: Solid Analysis Batch: 24380 Analyte Benzene Toluene Ethylbenzene n-Xylene & p-Xylene Sylenes, Total Surrogate	Res <0.002 <0.002 <0.004 <0.004 <0.002 <0.004	Sult Qualif 200 U 400 U 400 U 400 U 400 U	0.0020 0.0020 0.0020 0.0040 0.0020 0.0040	0 0 0 0 0 0	MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	04/20 04/20 04/20 04/20 04/20 04/20 04/20	6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59	Prep Analyze 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1	Batch: ed 18:04 18:04 18:04 18:04 18:04 18:04 18:04 ed	2426 Dil Fa
Lab Sample ID: MB 880-2420 Matrix: Solid Analysis Batch: 24380 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Res <0.002 <0.002 <0.004 <0.004 <0.002 <0.004	sult Qualif 200 U 200 U 200 U 200 U 200 U 400 U 200 U 400 U	0.0020 0.0020 0.0020 0.0040 0.0020 0.0040 ier Limits	0 0 0 0 0 0	MDL	mg/Kg mg/Kg mg/Kg mg/Kg		<u>D</u>	04/20 04/20 04/20 04/20 04/20 04/20 Pi 04/20	6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 6/22 15:59 repared	Prep Analyze 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1 04/28/22 1	Batch: ed 18:04 18:04 18:04 18:04 18:04 18:04 ed 18:04 	

QC Sample Results

Lab Sample ID: MB 880-24267/1-A

Matrix: Solid

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

	Job ID: 890-2255-1
	SDG: 03A1987005
(lient Sample ID: Method Blank
(lient Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Analysis Batch: 24469								Prep Batch	n: 24267
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/22 15:58	04/29/22 11:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/22 15:58	04/29/22 11:34	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/26/22 15:58	04/29/22 11:34	1
o-Terphenyl	99		70 - 130				04/26/22 15:58	04/29/22 11:34	1

Lab Sample ID: LCS 880-24267/2-A Matrix: Solid

Matrix: Solid Analysis Batch: 24469								Type: Total/N Batch: 2426	
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	888.9		mg/Kg		89	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	701.4		mg/Kg		70	70 - 130		
C10-C28)									

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: LCSD 880-24267/3-A	mple ID: LCSD 880-24267/3-A Client Sample ID: Lab Control Sample				e Dup				
Matrix: Solid							Prep 1	Type: Tot	tal/NA
Analysis Batch: 24469							Prep	Batch:	24267
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	923.8		mg/Kg		92	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	765.7		mg/Kg		77	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 880-14112-A-1-B MS
Matrix: Solid
Analysis Batch: 24469

Analysis Batch: 24469									Prep	Batch: 24267
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	808.7		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	705.1		mg/Kg		71	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 _ 130
o-Terphenyl	71		70 - 130

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Client Sa	mple ID: Matrix Spike
	Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2255-1 SDG: 03A1987005

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

Lab Sample ID: 880-14112-A-1-0 Matrix: Solid								-): Matrix Sp Prep 1	Type: To	tal/NA
Analysis Batch: 24469										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics	<49.9		999	754.3		mg/Kg		76	70 - 130	7	2
(GRO)-C6-C10	1010	0		10110					10 - 100		-
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	661.6	F1	mg/Kg		66	70 - 130	6	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	74		70 - 130								
o-Terphenyl	65	S1-	70 - 130								
lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-24335/1 Matrix: Solid Analysis Batch: 24519		ography						Client S	Sample ID: Prep	Method Type: S	
· · · · · , · · · · · · · · · · · · · · · · · · ·		MB MB									
Analyte	Re	esult Qualifier		RL	MDL Unit		D Pi	repared	Analyz	ed	Dil Fa
Chloride		5.00 U		5.00	mg/K				04/29/22		
Matrix: Solid	2-A		Spike	LCS	LCS		Client	Sample	e ID: Lab Co Prep %Rec	ontrol Sa Type: S	
Matrix: Solid Analysis Batch: 24519 Analyte	2-A		Spike Added 250		LCS Qualifier	Unit mg/Kg	Client	Sample %Rec 102	Prep		
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433			Added	Result		mg/Kg	D	%Rec 102	Prep %Rec Limits 90 - 110	Type: S	olubl
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid			Added 250	Result 254.3	Qualifier	mg/Kg	D	%Rec 102	Prep %Rec Limits 90 - 110 Lab Contro Prep	Type: So	e Du olubi
Lab Sample ID: LCS 880-24335/ Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519			Added 250 Spike	Result 254.3 LCSD	Qualifier	mg/Kg Clie	D	%Rec 102 ple ID: I	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: Si I Sampl Type: Si	e Duj olubi RPI
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Analyte			Added 250 Spike Added	Result 254.3 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec 102 ple ID: I	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	Type: Si ol Sampl Type: Si 	e Duj olubi olubi RPI Lim
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Analyte			Added 250 Spike	Result 254.3 LCSD	Qualifier	mg/Kg Clie	D	%Rec 102 ple ID: I	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: Si I Sampl Type: Si	e Du olubi olubi RP Lim
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519	5/3-A		Added 250 Spike Added	Result 254.3 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec 102 ple ID: 1 %Rec 102	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: So ol Sampl Type: So <u>RPD</u> 0	e Du olubi olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: 890-2240-A-7-B	5/3-A		Added 250 Spike Added 250	Result 254.3 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec 102 ple ID: 1 %Rec 102	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: So of Sampl Type: So <u></u>	e Du olubi olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: 890-2240-A-7-B Matrix: Solid	5/3-A		Added 250 Spike Added	Result 254.3 LCSD Result 254.1	Qualifier	mg/Kg Clie Unit	D	%Rec 102 ple ID: 1 %Rec 102	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: So of Sampl Type: So <u></u>	e Duj olubi RPI Lim 2 Spik
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: 890-2240-A-7-B Matrix: Solid	5/3-A MS Sample Result	Sample Qualifier	Added 250 Spike Added 250 Spike Added	Result 254.3 LCSD Result 254.1 MS Result	Qualifier LCSD Qualifier	mg/Kg Clie Unit	D	%Rec 102 ple ID: 1 %Rec 102	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits	Type: So of Sampl Type: So <u></u>	e Du olubi olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 24519 Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Chloride Lab Sample ID: 890-2240-A-7-B Matrix: Solid Analysis Batch: 24519 Analysis Batch: 24519	5/3-A MS Sample	-	Added 250 Spike Added 250 Spike	Result 254.3 LCSD Result 254.1	Qualifier LCSD Qualifier MS	mg/Kg Clie Unit mg/Kg	D nt Sam D	%Rec 102 ple ID: 1 %Rec 102 Client	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	Type: So of Sampl Type: So <u></u>	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 24519 Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Chloride Lab Sample ID: 890-2240-A-7-B Matrix: Solid Analysis Batch: 24519	5/3-A MS Sample Result 75.9 MSD	Qualifier	Added 250 Spike Added 250 Spike Added 250	Result 254.3 LCSD Result 254.1 MS Result 316.7	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Clie Unit mg/Kg	D	%Rec 102 ple ID: I %Rec 102 Client %Rec 96	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 0: Matrix Sp Prep	Type: So Sampl Type: So <u>RPD</u> 0 : Matrix Type: So	e Du olubl RP Lim 2 Spik olubl
Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: LCSD 880-2433 Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: 890-2240-A-7-B Matrix: Solid Analysis Batch: 24519 Analyte Chloride Lab Sample ID: 890-2240-A-7-C Matrix: Solid	5/3-A MS Sample Result 75.9 MSD Sample	Qualifier	Added 250 Spike Added 250 Spike Added	Result 254.3 LCSD Result 254.1 MS Result 316.7	Qualifier LCSD Qualifier MS	mg/Kg Clie Unit mg/Kg	D	%Rec 102 ple ID: I %Rec 102 Client %Rec 96	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: So ol Sampl Type: So <u>RPD</u> 0 : Matrix Type: So oike Dup	e Du olubi RP Lim 2 Spik olubi

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Job ID: 890-2255-1 SDG: 03A1987005

GC VOA

Prep Batch: 24201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2255-1	FS22	Total/NA	Solid	5035	
890-2255-2	FS21	Total/NA	Solid	5035	
MB 880-24201/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24201/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24201/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2225-A-2-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2225-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
rep Batch: 24268					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24268/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 24380

890-2225-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		0
Prep Batch: 24268						8
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
MB 880-24268/5-A	Method Blank	Total/NA	Solid	5035		
Analysis Batch: 24380						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2255-1	FS22	Total/NA	Solid	8021B	24201	
890-2255-2	FS21	Total/NA	Solid	8021B	24201	
MB 880-24201/5-A	Method Blank	Total/NA	Solid	8021B	24201	
MB 880-24268/5-A	Method Blank	Total/NA	Solid	8021B	24268	40
LCS 880-24201/1-A	Lab Control Sample	Total/NA	Solid	8021B	24201	13
LCSD 880-24201/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24201	
890-2225-A-2-G MS	Matrix Spike	Total/NA	Solid	8021B	24201	
890-2225-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24201	

Analysis Batch: 24534

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2255-1	FS22	Total/NA	Solid	Total BTEX	
890-2255-2	FS21	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24267

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2255-1	FS22	Total/NA	Solid	8015NM Prep	
890-2255-2	FS21	Total/NA	Solid	8015NM Prep	
MB 880-24267/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24267/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14112-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14112-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24469

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2255-1	FS22	Total/NA	Solid	8015B NM	24267
890-2255-2	FS21	Total/NA	Solid	8015B NM	24267
MB 880-24267/1-A	Method Blank	Total/NA	Solid	8015B NM	24267
LCS 880-24267/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24267
LCSD 880-24267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24267
880-14112-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	24267
880-14112-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24267

Received by OCD: 1/25/2023 12:00:26 AM

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

GC Semi VOA

Analysis Batch: 24558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2255-1	FS22	Total/NA	Solid	8015 NM	
890-2255-2	FS21	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2255-1	FS22	Soluble	Solid	DI Leach	
890-2255-2	FS21	Soluble	Solid	DI Leach	
MB 880-24335/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2240-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2240-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 24519					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2255-1	FS22	Soluble	Solid	300.0	24335
390-2255-2	FS21	Soluble	Solid	300.0	24335
MB 880-24335/1-A	Method Blank	Soluble	Solid	300.0	24335

Analysis Batch: 24519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2255-1	FS22	Soluble	Solid	300.0	24335	
890-2255-2	FS21	Soluble	Solid	300.0	24335	
MB 880-24335/1-A	Method Blank	Soluble	Solid	300.0	24335	
LCS 880-24335/2-A	Lab Control Sample	Soluble	Solid	300.0	24335	
LCSD 880-24335/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24335	
890-2240-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	24335	
890-2240-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24335	

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Job ID: 890-2255-1

SDG: 03A1987005

Job ID: 890-2255-1 SDG: 03A1987005

Lab Sample ID: 890-2255-1 Matrix: Solid

Lab Sample ID: 890-2255-2

Matrix: Solid

Client Sample ID: FS22 Date Collected: 04/27/22 09:15 Date Received: 04/28/22 10:41

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	24201	04/28/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24380	04/29/22 12:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24534	04/29/22 15:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24558	04/29/22 20:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24267	04/29/22 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24469	04/29/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 14:37	SC	XEN MID

Client Sample ID: FS21

Date Collected: 04/27/22 10:50

Date Received: 04/28/22 10:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	24201	04/28/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24380	04/29/22 12:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24534	04/29/22 15:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24558	04/29/22 20:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24267	04/29/22 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24469	04/29/22 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24335	04/29/22 10:53	SC	XEN MID
Soluble	Analysis	300.0		1			24519	04/29/22 14:46	SC	XEN MID

Laboratory References:

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

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	,		crimeation Gammary		
Client: Ensolum				Job ID: 890-2255-1	
Project/Site: North Bru	shy Draw 35-2H			SDG: 03A1987005	
Laboratory: Eurof	ins Midland				
Unless otherwise noted, all a	analytes for this laboratory w	ere covered under each acc	reditation/certification below.		
Authority	P	rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-21-22	06-30-22	-
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2255-1 SDG: 03A1987005

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2255-1 SDG: 03A1987005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2255-1	FS22	Solid	04/27/22 09:15	04/28/22 10:41	14
890-2255-2	FS21	Solid	04/27/22 10:50	04/28/22 10:41	14 - 15

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TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471 urchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions e anvesconsibility for anvioses or excenses incurred by the client if such losses are due to circumstances beyond the control	II K Se Ag SIO ₂ Na Sr II Hg: 1631 / 245.1 / 7								W. Corp I X X X X I I I I I I I I I I I I I I	Depth Grab/ # of # # B C Depth Comp Cont PF C				Z C Z I Z Z I Z Z Z Z Z Z Z Z Z Z Z Z Z		24 #C (cool: Cool:	Hank		EDD	City, State ZIP: Carls Dad, NM 88228 Reporting: Level II Level III PST/UST TRRP L	Address: 5315 Buene Viste Or. State of Project:	Company Name: WPX Company Name: UST/PST PRP Brownfields RRC Superfund	Bill to: (if different) Jim Ratey	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Page of I		
nd Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA ent and relinquishment of samples constitutes a valid purchase order from client company to Eu be liable only for the cost of samples and shall not assume any responsibility for any losses or expo	btal 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb le Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA <u>5</u>							0407 51-11 2 G 0 1 7 1 7 1 7 1 6 0 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5 4/13/12 09/5 14 Bond	ix Date Time Depth Grab/ Sampled Sampled Comp	Corrected Temperature: 1. 2	Yes No (N/A) Temperature Reading:	Yes No NA Correction Factor: -0.7	Temp Blank: Tes No Wet Ice: YES No	IN BEAT TO COLOR THE IBD. If received by 4:30pm	Eddy County, NM	er: Ø3A1967-pøgs 🛛 Routine Wush	North Bruchy Draw 35-24 Turn Around	575.200-6754 Email abyer@	Cartsbad, NM BBL20	3122 retional Partia Huy	Ensolum	Anna Buers		1	Environment Testing
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Released to Imaging: 5/23/2023 8:29:46 AM

4/29/2022

14

Job Number: 890-2255-1 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2255 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	
s 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	

N/A

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

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2255 List Number: 2 Creator: Rodriguez, Leticia

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

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

14

Job Number: 890-2255-1 SDG Number: 03A1987005

List Source: Eurofins Midland List Creation: 04/29/22 10:53 AM Received by OCD: 1/25/2023 12:00:26 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2261-1

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: North Brushy Draw 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

Brisma Tel

Authorized for release by: 5/3/2022 7:53:43 AM Brianna Teel, Project Manager (432)704-5440 Brianna.Teel@et.eurofinsus.com

Designee for

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Have a Question?

Ask-

The

Released to Imaging: 5/23/2023 8:29:46 AM

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Laboratory Job ID: 890-2261-1 SDG: 03A1987005

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Definitions/Glossary

Client: Ensolum
Project/Site: North Brushy Draw 35-2H

Job ID: 890-2261-1 SDG: 03A1987005

		_
Qualifiers		- 3
GC VOA Qualifier	Qualifier Description	Δ
U	Indicates the analyte was analyzed for but not detected.	-
GC Semi VOA		5
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	- 6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	- 8
Glossary		- 0
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	1
%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	4
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)	

Eurofins Carlsbad

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Method Quantitation Limit

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

MPN

MQL

NC ND

NEG

POS

PQL

PRES QC

RER

RL RPD

TEF

TEQ

TNTC

4

5

Case Narrative

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2261-1 SDG: 03A1987005

Job ID: 890-2261-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2261-1

Receipt

The samples were received on 4/28/2022 4:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.
Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

%Recovery Qualifier

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

l imits

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

05/02/22 08:00

05/02/22 08:00

05/02/22 08:00

05/02/22 08:00

05/02/22 08:00

05/02/22 08:00

Prenared

Job ID: 890-2261-1 SDG: 03A1987005

Client Sample ID: SW05

Date Collected: 04/28/22 09:00 Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

o-Xylene

Surrogate

Xylenes, Total

4-Bromofluorobenzene (Surr)

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab Sample ID: 890-2261-1

Analyzed

05/02/22 13:26

05/02/22 13:26

05/02/22 13:26

05/02/22 13:26

05/02/22 13:26

05/02/22 13:26

Analyzed

Matrix: Solid

261-1 Solid	3
	4
	5
Dil Fac 1	6
1 1	7
1	2
1	0
Dil Fac 1	9
1	10
Dil Fac	11
1	12
Dil Fac	13
1	

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				05/02/22 08:00	05/02/22 13:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/02/22 08:00	05/02/22 13:26	1
— Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/02/22 21:55	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		05/02/22 08:30	05/02/22 12:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 12:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				05/02/22 08:30	05/02/22 12:12	1
o-Terphenyl	118		70 - 130				05/02/22 08:30	05/02/22 12:12	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.97		mg/Kg			05/02/22 13:34	1
Client Sample ID: SW06							Lab San	nple ID: 890-	2261-2
Date Collected: 04/28/22 09:05								Matri	x: Solid
Date Received: 04/28/22 16:18									
Sample Depth: 0 - 14									
– Method: 8021B - Volatile Organio	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/02/22 08:00	05/02/22 13:46	1

0.00200

0.00399

Limits

70 - 130

mg/Kg

mg/Kg

05/02/22 08:00

05/02/22 08:00

Prepared

05/02/22 08:00

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<0.00200 U

<0.00399 U

107

Qualifier

%Recovery

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05/02/22 13:46

05/02/22 13:46

Analyzed

05/02/22 13:46

5/3/2022

1

1

1

Dil Fac

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

Client Sample Results

Job ID: 890-2261-1 SDG: 03A1987005

Client Sample ID: SW06

Date Collected: 04/28/22 09:05 Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

Client: Ensolum

Lab Sample	D:	890-2261-2
		Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene (Surr)	88		70 - 130				05/02/22 08:00	05/02/22 13:46	1	0
Method: Total BTEX - Total BTEX										
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 21:55	1	8
- Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)								0
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	9
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	1	
- Mothody 2015P NM Dissol Bong	o Organica (D									
Method: 8015B NM - Diesel Rang						_	<u> </u>			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 13:18	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 13:18	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 13:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	99		70 - 130				05/02/22 08:30	05/02/22 13:18	1	
o-Terphenyl	98		70 - 130				05/02/22 08:30	05/02/22 13:18	1	
Method: 300.0 - Anions, Ion Chro										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	223		4.99		mg/Kg			05/02/22 13:40	1	
Client Sample ID: SW07							Lah San	nple ID: 890-	2261-3	

Client Sample ID: SW07

Date Collected: 04/28/22 09:15 Date Received: 04/28/22 16:18 Sample Depth: 0 - 14

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 0.00201 mg/Kg 05/02/22 08:00 05/02/22 14:07 Toluene <0.00201 U 0.00201 05/02/22 08:00 05/02/22 14.07 mg/Kg 1 Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/02/22 08:00 05/02/22 14:07 05/02/22 14:07 m-Xylene & p-Xylene <0.00402 U 0.00402 05/02/22 08:00 mg/Kg 1 o-Xylene <0.00201 U 0.00201 mg/Kg 05/02/22 08:00 05/02/22 14:07 1 Xylenes, Total <0.00402 U 0.00402 mg/Kg 05/02/22 08:00 05/02/22 14:07 1 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analvzed 4-Bromofluorobenzene (Surr) 106 70 - 130 05/02/22 08:00 05/02/22 14.07 1 1,4-Difluorobenzene (Surr) 91 70 - 130 05/02/22 08:00 05/02/22 14:07 1 Method: Total BTEX - Total BTEX Calculation Analyte RL MDL Unit D Result Qualifier Prepared Analvzed Dil Fac Total BTEX < 0.00402 U 0.00402 mg/Kg 05/02/22 21:55 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 05/02/22 21:57 Total TPH 50.0 mg/Kg 1

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Matrix: Solid

Released to Imaging: 5/23/2023 8:29:46 AM

Client Sample Results

Client: Ensolum	
Project/Site: North Brushy Draw 35-2H	ł

Client Sample ID: SW07

Date Collected: 04/28/22 09:15

Date Received: 04/28/22 16:18 Sample Depth: 0 - 14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 13:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 13:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/02/22 08:30	05/02/22 13:39	1
o-Terphenyl	108		70 - 130				05/02/22 08:30	05/02/22 13:39	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		5.00		mg/Kg			05/02/22 13:59	1

Client Sample ID: SW08

Date Collected: 04/28/22 09:20 Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/02/22 08:00	05/02/22 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/02/22 08:00	05/02/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/02/22 08:00	05/02/22 14:27	1
1,4-Difluorobenzene (Surr)	87		70 - 130				05/02/22 08:00	05/02/22 14:27	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/22 21:55	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 21:57	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 14:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 14:01	1
C10-C28)	-10.0		40.0		·····		05/00/00 00:00	05/00/00 44:04	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 14:01	1
Summerie	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate	///////////////////////////////////////								
1-Chlorooctane			70 - 130				05/02/22 08:30	05/02/22 14:01	1

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Job ID: 890-2261-1 SDG: 03A1987005

Lab Sample ID: 890-2261-3 Matrix: Solid

Lab Sample ID: 890-2261-4

Matrix: Solid

		Clien	t Sample R	Results	;				
Client: Ensolum								Job ID: 890	
Project/Site: North Brushy Draw 35-	2H							SDG: 03A1	987005
Client Sample ID: SW08							Lab Sar	nple ID: 890-	2261-4
Date Collected: 04/28/22 09:20								Matri	ix: Solic
Date Received: 04/28/22 16:18									
Sample Depth: 0 - 14									
_ Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	207		4.95		mg/Kg			05/02/22 14:06	
 Client Sample ID: SW09							l ah Sar	nple ID: 890-	2261-5
· · · · · · · · · · · · · · · · · · ·									
Date Collected: 04/28/22 09:25								watri	ix: Solid
Date Received: 04/28/22 16:18 Sample Depth: 0 - 14									
_									
Method: 8021B - Volatile Organic		(GC) Qualifier	RL	MDI	Unit	D	Branarad	Analyzad	Dil Fac
Analyte Benzene	- Kesult <0.00199	-	0.00199			<u> </u>	Prepared 05/02/22 08:00	Analyzed 05/02/22 14:48	1
Toluene	<0.00199		0.00199		mg/Kg mg/Kg		05/02/22 08:00	05/02/22 14:48	1
Ethylbenzene	<0.00199		0.00199				05/02/22 08:00	05/02/22 14:48	1
m-Xylene & p-Xylene	<0.00199		0.00398		mg/Kg mg/Kg		05/02/22 08:00	05/02/22 14:48	
o-Xylene	< 0.00398		0.00199		mg/Kg		05/02/22 08:00	05/02/22 14:48	
Xylenes, Total	<0.00199		0.00398		mg/Kg		05/02/22 08:00	05/02/22 14:48	1
	0.00000	C C	0.00000				00,02,22 00.00	00,02,22	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/02/22 08:00	05/02/22 14:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/02/22 08:00	05/02/22 14:48	1
	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/02/22 21:55	1
- Method: 2045 NM Dissel Dance	Ormaniaa (DD								
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0		mg/Kg			05/02/22 21:57	1
-					5 5				
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg	_	05/02/22 08:30	05/02/22 14:23	1
(GRO)-C6-C10			50.0						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 14:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 14:23	1
Sumanata	% D	Qualifier	l imit-				Duon!	Ano!	D" F
Surrogate 1-Chlorooctane	% Recovery 108	Quaimer					Prepared 05/02/22 08:30	Analyzed 05/02/22 14:23	Dil Fac
	108		70 - 130 70 - 130				05/02/22 08:30	05/02/22 14:23	
o-Terphenyl 	110		10 - 130				00/02/22 00.30	00/02/22 14.23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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05/02/22 14:25

Chloride

5.00

mg/Kg

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

RL

0.00200

0.00200

0.00200

0.00399

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

05/02/22 08:00

05/02/22 08:00

05/02/22 08:00

05/02/22 08:00

Job ID: 890-2261-1 SDG: 03A1987005

Client Sample ID: SW10

Date Collected: 04/28/22 09:30 Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

Client: Ensolum

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Lab Sample ID: 890-2261-6 Matrix: Solid

Analyzed

05/02/22 15:08

05/02/22 15:08

05/02/22 15:08

05/02/22 15:08

5

Dil Fac

1

1

1

1

	3

0.00000	0			ilig/itg						
<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 15:08	1		
<0.00399	U	0.00399		mg/Kg		05/02/22 08:00	05/02/22 15:08	1		
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
104		70 - 130				05/02/22 08:00	05/02/22 15:08	1		
91		70 - 130				05/02/22 08:00	05/02/22 15:08	1		
Calculation										
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
<0.00399	U	0.00399		mg/Kg			05/02/22 21:55	1		
Organics (DR	O) (GC)									
		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
<50.0	U	50.0		mg/Kg			05/02/22 21:57	1		
ne Organics (D	RO) (GC)									
		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 14:45	1		
<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 14:45	1		
<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 14:45	1		
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
		70 - 130				05/02/22 08:30	05/02/22 14:45	1		
114		70 - 130				05/02/22 08:30	05/02/22 14:45	1		
omatography -	Soluble									
		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
202		5.05		mg/Kg			05/02/22 14:31	1		
						Lab San	nple ID: 890-	2261-7		
								ix: Solid		
							Matri	x. 3011u		
							Watri	ix. Soliu		
	<0.00399 %Recovery 104 91 Calculation Result <0.00399 Organics (DR Result <50.0 ge Organics (D Result <50.0 550.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0	IO4 91 Calculation Result Qualifier <0.00399	<0.00399	<0.00399 U 0.00399 $\frac{\% Recovery}{104}$ $\frac{\textbf{Qualifier}}{70.130}$ $\frac{\textbf{Limits}}{70.130}$ 91 70.130 91 70.130 $(\textbf{Calculation})$ \textbf{Result} $\textbf{Qualifier}$ \textbf{RL} <0.00399 U 0.00399 \textbf{MDL} <0.0000 (\textbf{GC}) \textbf{MDL} \textbf{MDL} <0.0000 0.0000 0.00000 0.000000 $<0.00000000000000000000000000000000000$	<0.00200	<0.00200	<0.00200	<0.00200	<<0.00399	<50.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		05/02/22 08:00	05/02/22 15:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/22 08:00	05/02/22 15:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/22 08:00	05/02/22 15:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/22 08:00	05/02/22 15:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/22 08:00	05/02/22 15:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/22 08:00	05/02/22 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				05/02/22 08:00	05/02/22 15:29	1

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Method: Total BTEX - Total BTEX Calculation

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

%Recovery Qualifier

Result Qualifier

85

<0.00398 U

Client Sample Results

Limits

70 - 130

RL

0.00398

Job ID: 890-2261-1 SDG: 03A1987005

Client Sample ID: SW11

Date Collected: 04/28/22 09:45 Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

1,4-Difluorobenzene (Surr)

Client: Ensolum

Surrogate

Analyte

Total BTEX

Lab	Sample	ID:	890-2261-7
			Martine O all'al

Analyzed

05/02/22 15:29

Analyzed

05/02/22 21:55

Prepared

05/02/22 08:00

Prepared

D

Matrix: Solid

Dil Fac

Dil Fac

1

1

5

nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	1
Aethod: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 15:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
-Chlorooctane	99		70 - 130				05/02/22 08:30	05/02/22 15:07	1
p-Terphenyl	99		70 - 130				05/02/22 08:30	05/02/22 15:07	1
/lethod: 300.0 - Anions, Ion Chr									
Nethod: 300.0 - Anions, Ion Chr Analyte Chloride		Soluble Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed	-
Analyte Chloride lient Sample ID: SW12	Result			MDL		D		05/02/22 14:37	
Analyte Chloride lient Sample ID: SW12 ate Collected: 04/28/22 09:50	Result			MDL		<u>D</u>		05/02/22 14:37	1
Analyte Chloride lient Sample ID: SW12	Result			MDL		<u> </u>		05/02/22 14:37	1 2261-8
Analyte Chloride lient Sample ID: SW12 ate Collected: 04/28/22 09:50 ate Received: 04/28/22 16:18	Result309	Qualifier		MDL		<u>D</u>		05/02/22 14:37	1 2261-8
Analyte Chloride lient Sample ID: SW12 ate Collected: 04/28/22 09:50 ate Received: 04/28/22 16:18 ample Depth: 0 - 14	c Compounds (Qualifier				D		05/02/22 14:37	1 2261-8
Analyte Chloride lient Sample ID: SW12 ate Collected: 04/28/22 09:50 ate Received: 04/28/22 16:18 ample Depth: 0 - 14 Method: 8021B - Volatile Organi	c Compounds (Qualifier (GC) Qualifier	4.99		mg/Kg		Lab San	05/02/22 14:37 nple ID: 890-2 Matri	1 2261-8 x: Solid
Analyte Chloride lient Sample ID: SW12 ate Collected: 04/28/22 09:50 ate Received: 04/28/22 16:18 ample Depth: 0 - 14 Method: 8021B - Volatile Organi analyte	c Compounds (Qualifier (GC) Qualifier U	4.99		mg/Kg		Lab San	05/02/22 14:37 nple ID: 890-2 Matri Analyzed	1 2261-8 x: Solid Dil Fac
Analyte Chloride lient Sample ID: SW12 Ate Collected: 04/28/22 09:50 Ate Received: 04/28/22 16:18 Ample Depth: 0 - 14 Method: 8021B - Volatile Organi Analyte Benzene		Qualifier (GC) Qualifier U U	4.99		Unit mg/Kg		Lab San Prepared 05/02/22 08:00	05/02/22 14:37 nple ID: 890-2 Matri Analyzed 05/02/22 15:49	1 2261-8 x: Solid Dil Fac
Analyte Chloride lient Sample ID: SW12 Ate Collected: 04/28/22 09:50 Ate Received: 04/28/22 16:18 Ample Depth: 0 - 14 Method: 8021B - Volatile Organi Analyte Benzene Toluene	c Compounds (Qualifier (GC) Qualifier U U U	4.99		Unit mg/Kg mg/Kg mg/Kg		Lab San Prepared 05/02/22 08:00 05/02/22 08:00	05/02/22 14:37 nple ID: 890-2 Matri Analyzed 05/02/22 15:49 05/02/22 15:49	1 2261-8 x: Solid Dil Fac
Analyte Chloride lient Sample ID: SW12 ate Collected: 04/28/22 09:50 ate Received: 04/28/22 16:18 ample Depth: 0 - 14 Method: 8021B - Volatile Organi Analyte Benzene Toluene Ethylbenzene	C Compounds (Result 309 C Compounds (Result <0.00200 <0.00200 <0.00200	Qualifier (GC) Qualifier U U U U	4.99 4.99		Unit mg/Kg mg/Kg mg/Kg		Lab San Prepared 05/02/22 08:00 05/02/22 08:00 05/02/22 08:00	05/02/22 14:37 nple ID: 890-2 Matri 05/02/22 15:49 05/02/22 15:49 05/02/22 15:49	1 2261-8 x: Solid Dil Fac 1 1 1

MDL Unit

mg/Kg

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				05/02/22 08:00	05/02/22 15:49	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/02/22 08:00	05/02/22 15:49	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400		mg/Kg			05/02/22 21:55	1
Method: 8015 NM - Diesel Range	organics (DR	O) (GC)							

Method: 8015 NM - Diesel Range C	organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	1

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Released to Imaging: 5/23/2023 8:29:46 AM

5/3/2022

Job ID: 890-2261-1 SDG: 03A1987005

Matrix: Solid

Lab Sample ID: 890-2261-8

Client Sample Results

Clie	nt: Ensolum			
Proj	ect/Site: North	Brushy	/ Draw	35-2H

Client Sample ID: SW12

Date Collected: 04/28/22 09:50

Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 15:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 15:28	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/02/22 08:30	05/02/22 15:28	1
o-Terphenyl	99		70 _ 130				05/02/22 08:30	05/02/22 15:28	1

wethod: 300.0 - Anions, ion Chrom	latography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308	4.98	mg/Kg			05/02/22 14:44	1

Client Sample ID: SW13

Date Collected: 04/28/22 09:55 Date Received: 04/28/22 16:18

Sample Depth: 0 - 14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 16:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 16:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 16:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/02/22 08:00	05/02/22 16:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 16:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/02/22 08:00	05/02/22 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/02/22 08:00	05/02/22 16:10	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/02/22 08:00	05/02/22 16:10	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/02/22 21:55	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 21:57	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 15:50	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/02/22 08:30	05/02/22 15:50	1
o-Terphenyl	110		70 - 130				05/02/22 08:30	05/02/22 15:50	-

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		Clier	nt Sample R	Results	5				
Client: Ensolum								Job ID: 890	
Project/Site: North Brushy Draw 35)-2H							SDG: 03A1	
Client Sample ID: SW13 Date Collected: 04/28/22 09:55 Date Received: 04/28/22 16:18 Sample Depth: 0 - 14							Lab Sar	nple ID: 890- Matri	2261-9 ix: Solid
Method: 300.0 - Anions, Ion Chr Analyte	• • • •	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.99		mg/Kg			05/02/22 14:50	1
Client Sample ID: SW14 Date Collected: 04/28/22 10:00 Date Received: 04/28/22 16:18 Sample Depth: 0 - 14							Lab Sam	ple ID: 890-2 Matri	261-10 ix: Solid
Method: 8021B - Volatile Organi		GC) Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Analyte Benzene			0.00201		mg/Kg		Prepared 05/02/22 08:00	05/02/22 16:30	
Toluene	<0.00201	-	0.00201		mg/Kg		05/02/22 08:00	05/02/22 16:30	1
Ethylbenzene	<0.00201		0.00201		mg/Kg		05/02/22 08:00	05/02/22 16:30	1
m-Xylene & p-Xylene	<0.00201		0.00201		mg/Kg		05/02/22 08:00	05/02/22 16:30	' 1
o-Xylene	<0.00402		0.00402		mg/Kg		05/02/22 08:00	05/02/22 16:30	1
Xylenes, Total	<0.00402		0.00402		mg/Kg		05/02/22 08:00	05/02/22 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		Quanner	70 - 130				05/02/22 08:00	05/02/22 16:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/02/22 08:00	05/02/22 16:30	1
 Method: Total BTEX - Total BTE	X Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402		0.00402		mg/Kg			05/02/22 21:55	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 16:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 16:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/02/22 08:30	05/02/22 16:12	1
o-Terphenyl	109		70 - 130				05/02/22 08:30	05/02/22 16:12	1
Method: 300.0 - Anions, Ion Chr		Soluble Qualifier	DI	мпл	Unit	п	Pronarod	Analyzed	Dil Fac
Analyte	Result	Quaimer	RL	WDL	Unit	D	Prepared	Analyzed	

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05/02/22 14:56

Chloride

4.95

mg/Kg

RL

0.00202

0.00202

MDL Unit

mg/Kg

mg/Kg

D

Prepared

05/02/22 08:00

05/02/22 08:00

Job ID: 890-2261-1 SDG: 03A1987005

Client Sample ID: FS23

Sample Depth: 3 - 14

Client: Ensolum

Analyte

Benzene

Toluene

Lab Sample ID: 890-2261-11

Analyzed

05/02/22 18:09

05/02/22 18:09

Matrix: Solid

Dil Fac

1

1

5

Toluelle	<0.00Z0Z	0	0.00202		my/rty		03/02/22 00.00	03/02/22 10.09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/02/22 08:00	05/02/22 18:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/02/22 08:00	05/02/22 18:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/02/22 08:00	05/02/22 18:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/02/22 08:00	05/02/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/02/22 08:00	05/02/22 18:09	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/02/22 08:00	05/02/22 18:09	1
Method: Total BTEX - Total BTE	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/02/22 21:55	1
Method: 8015 NM - Diesel Range	organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/02/22 21:57	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 16:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/02/22 08:30	05/02/22 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/02/22 08:30	05/02/22 16:55	1
o-Terphenyl	108		70 - 130				05/02/22 08:30	05/02/22 16:55	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.6		4.95		mg/Kg			05/02/22 15:03	1
Client Sample ID: FS24							Lab Sam	ple ID: 890-2	261-12
ate Collected: 04/28/22 09:40								Matri	x: Solid
Date Received: 04/28/22 16:18									
Sample Depth: 3 - 14									
Method: 8021B - Volatile Organic						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201		0.00201		mg/Kg		05/02/22 08:00	05/02/22 18:29	1
Toluene	< 0.00201		0.00201		mg/Kg		05/02/22 08:00	05/02/22 18:29	1
Ethylbenzene	< 0.00201		0.00201		mg/Kg		05/02/22 08:00	05/02/22 18:29	1
m-Xylene & p-Xylene	< 0.00402	U	0.00402		mg/Kg		05/02/22 08:00	05/02/22 18:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/02/22 08:00	05/02/22 18:29	1

<0.00402 U 0.00402 05/02/22 08:00 05/02/22 18:29 Xylenes, Total mg/Kg %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 104 70 - 130 05/02/22 08:00 05/02/22 18:29

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Project/Site: North Brushy Draw 35-2H Date Collected: 04/28/22 09:35 Date Received: 04/28/22 16:18

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

1

Client Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: FS24

Date Collected: 04/28/22 09:40

Date Received: 04/28/22 16:18 Sample Depth: 3 - 14

Method: 8021B - Volatile Org	ganic Compour	nds (GC)	(Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	91		70 - 130				05/02/22 08:00	05/02/22 18:29	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/22 21:55	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	
Method: 8015B NM - Diesel Rang Analyte		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 17:17	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 17:17	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 17:17	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	105		70 - 130				05/02/22 08:30	05/02/22 17:17	
o-Terphenyl	106		70 - 130				05/02/22 08:30	05/02/22 17:17	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	115		4.97		mg/Kg			05/02/22 12:50	

5/3/2022

Job ID: 890-2261-1 SDG: 03A1987005

Lab Sample ID: 890-2261-12

Matrix: Solid

Surrogate Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
_ab Sample ID	Client Sample ID	(70-130)	(70-130)		
390-2261-1	SW05	102	90		
390-2261-1 MS	SW05	109	96		
390-2261-1 MSD	SW05	112	95		- 27
390-2261-2	SW06	107	88		
390-2261-3	SW07	106	91		
390-2261-4	SW08	105	87		
390-2261-5	SW09	106	90		
390-2261-6	SW10	104	91		
390-2261-7	SW11	101	85		
390-2261-8	SW12	100	88		
390-2261-9	SW13	106	88		
390-2261-10	SW14	102	90		
390-2261-11	FS23	108	91		
390-2261-12	FS24	104	91		
_CS 880-24437/1-A	Lab Control Sample	110	98		
CSD 880-24437/2-A	Lab Control Sample Dup	109	96		
MB 880-24437/5-B	Method Blank	99	90		1
Surrogate Legend					

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-2261-1 SW05 116 118 890-2261-1 MS SW05 91 102 SW05 890-2261-1 MSD 90 100 890-2261-2 SW06 99 98 890-2261-3 SW07 108 108 890-2261-4 SW08 100 100 SW09 890-2261-5 108 110 890-2261-6 SW10 112 114 SW11 890-2261-7 99 99 SW12 890-2261-8 99 99 SW13 890-2261-9 107 110 SW14 890-2261-10 109 109 890-2261-11 **FS23** 108 108 FS24 890-2261-12 105 106 LCS 880-24605/2-A Lab Control Sample 104 96 LCSD 880-24605/3-A Lab Control Sample Dup 93 99 MB 880-24605/1-A Method Blank 93 94

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

SDG: 03A1987005
Prep Type: Total/NA

Job ID: 890-2261-1

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24437/5-B Matrix: Solid Analysis Batch: 24636							Client Sa	mple ID: Metho Prep Type: ٦ Prep Batch	otal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/22 08:00	05/02/22 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/22 08:00	05/02/22 13:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/22 08:00	05/02/22 13:04	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				05/02/22 08:00	05/02/22 13:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/02/22 08:00	05/02/22 13:04	1
Lab Sample ID: LCS 880-24437/1-A						C	lient Sample I	D: Lab Control	10 C

Matri	x: S	olid	
Anal	ysis	Batch:	24636

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08579		mg/Kg		86	70 - 130
Toluene	0.100	0.09000		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.09801		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1980		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-24437/2-A

Matrix: Solid

Analysis Batch: 24636							Prep	Batch:	24437
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08259		mg/Kg		83	70 - 130	4	35
Toluene	0.100	0.08659		mg/Kg		87	70 - 130	4	35
Ethylbenzene	0.100	0.09481		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130	3	35
o-Xylene	0.100	0.09736		mg/Kg		97	70 - 130	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-2261-1 MS Matrix: Solid

Analysis Ratch: 24626

Analysis Batch: 24636									Prep	Batch: 24437
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.07878		mg/Kg		79	70 - 130	
Toluene	<0.00200	U	0.0998	0.08341		mg/Kg		84	70 - 130	

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Job ID: 890-2261-1

SDG: 03A1987005

5 6 7

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 24437

Client Sample ID: SW05

Prep Type: Total/NA

Released to Imaging: 5/23/2023 8:29:46 AM

MS MS

MSD MSD

0.09128

0.1841

0.09273

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0998

0.200

0.0998

Limits

70 - 130

70 - 130

Spike

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: 890-2261-1 MS

Analysis Batch: 24636

4-Bromofluorobenzene (Surr)

Analysis Batch: 24636

Lab Sample ID: 890-2261-1 MSD

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

Sample Sample

<0.00200

<0.00401 U

<0.00200 U

109

96

%Recovery

Result Qualifier

U

MS MS

Sample Sample

Qualifier

Job ID: 890-2261-1 SDG: 03A1987005

Client Sample ID: SW05

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

91

92

93

D

Prep Type: Total/NA

Prep Batch: 24437

7

Client Sample ID: SW05
Prep Type: Total/NA
Prop Batch: 24437

Sample ID: SW05	
ep Type: Total/NA	
Prep Batch: 24437	
RPD	

3

0 1

2

2

35 35

35

35

35

chefit Sample ID. Sw05
Prep Type: Total/NA
Prep Batch: 24437

		Batch:	
	%Rec		RPD
%Rec	Limits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RP
Benzene	<0.00200	U	0.0996	0.07642		mg/Kg		77	70 - 130	
Toluene	<0.00200	U	0.0996	0.08325		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.09260		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1875		mg/Kg		94	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.09430		mg/Kg		95	70 - 130	
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)			70 - 130							
1,4-Difluorobenzene (Surr)	95		70 - 130							

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

b Sample ID: MB 880-24605/1-A atrix: Solid nalysis Batch: 24615							Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	МВ	MB							
alyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
soline Range Organics RO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
sel Range Organics (Over D-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
	МВ	МВ							
rrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Chlorooctane	93		70 - 130				05/02/22 08:30	05/02/22 11:06	1
erphenyl	94		70 - 130				05/02/22 08:30	05/02/22 11:06	1
erphenyl b Sample ID: LCS 880-24605/2-A	94		70 - 130			c	05/02/22 08:30		

Lab Sample ID: LCS 880-24605/2-A Matrix: Solid Analysis Batch: 24615

Analysis Batch: 24615							Prep	Batch: 24605
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1078		mg/Kg		108	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	895.7		mg/Kg		90	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: LCS 880-24	605/2-A						Client	Sampl	e ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep T	Type: To	tal/NA
Analysis Batch: 24615									Prep	Batch:	24605
	105	LCS									
Sume note			Lingita								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	96		70 - 130								
Lab Sample ID: LCSD 880-2	4605/3-A					Clie	nt Sam	nole ID:	Lab Contro	I Sampl	e Dun
Matrix: Solid										Type: To	
Analysis Batch: 24615										Batch:	
Analysis Baten. 24010			Spike	LCSD	LCSD				%Rec	Baten.	RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1013		mg/Kg		101	70 - 130	6	20
(GRO)-C6-C10			1000	1013		myrxy		101	70 - 150	0	20
Diesel Range Organics (Over			1000	840.3		mg/Kg		84	70 - 130	6	20
C10-C28)				010.0				07		Ŭ	20
,											
	LCSD										
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	93		70 - 130								
Lab Sample ID: 890-2261-1	MS								Client San		SW05
Matrix: Solid										Type: To	
Analysis Batch: 24615	Somple	Sample	Spike	ме	MS				%Rec	Batch:	24005
Amelute	-	-	Spike Added			11		0/ Dee	Limits		
Analyte		Qualifier			Qualifier	Unit	D	%Rec			
Gasoline Range Organics (GRO)-C6-C10	<50.0	UFI	1000	1411	F.I	mg/Kg		141	70 - 130		
Diesel Range Organics (Over	<50.0	U	1000	1028		mg/Kg		103	70 - 130		
C10-C28)	-00.0	0	1000	1020		mgring		100	10-100		
		MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: 890-2261-1	Med								Client San		SWOE
· · · · · · · · · · · · · · · · · · ·											
Matrix: Solid										Type: To	
Analysis Batch: 24615	0	0	0	MOD	MSD					Batch:	
Applyto	-	Sample Qualifier	Spike Added		Qualifier	Unit	Б	%Rec	%Rec Limits	RPD	RPD Limit
Analyte Gasoline Range Organics			998	1401		_ Unit mg/Kg	D	140		1	20
(GRO)-C6-C10	~50.0	011	990	1401		myrxy		140	10 - 150	I	20
Diesel Range Organics (Over	<50.0	U	998	1000		mg/Kg		100	70 - 130	3	20
C10-C28)	00.0	-								č	20
	M00	MED									
Sume note		MSD	1 ins 14-								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								

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90

o-Terphenyl

70 - 130

Client: Ensolum

QC Sample Results

Job ID: 890-2261-1 SDG: 03A1987005

Project/Site: North Brushy Draw 35-2H

Method: 300.0 - Anions, Ion Chromatography

	- A											Client S	ample ID:		
Matrix: Solid													Prep	Type: \$	soluble
Analysis Batch: 24622		мв	MB												
Analyte	R		Qualifier		RL		MDL	Unit		D	P	repared	Analyz	hav	Dil Fa
Chloride		5.00			5.00			mg/Kg		<u> </u>		epareu	05/02/22		Dirra
		0.00	0		0.00			iiig/itg					00/02/22	00.00	
Lab Sample ID: LCS 880-24340/2	2-A									Cl	ent	Sample	ID: Lab Co	ontrol S	Sample
Matrix: Solid													Prep	Type: S	Solubl
Analysis Batch: 24622															
				Spike			LCS				_		%Rec		
Analyte				Added		Result	Quali	tier	Unit		D	%Rec	Limits		
Chloride				250		237.4			mg/Kg			95	90 - 110		
Lab Sample ID: LCSD 880-24340	0/3-A								Cli	ent S	Sam	ple ID: I	Lab Contro	ol Samo	ole Dur
Matrix: Solid														Type: S	
Analysis Batch: 24622															
				Spike		LCSD	LCSE)					%Rec		RPI
Analyte				Added		Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		236.2			mg/Kg			94	90 - 110	1	20
Lab Sample ID: 880-14140-B-13-	P MS											Client	Sample ID	Motri	e Chile
Matrix: Solid	-D 1VI3											Client	Sample ID	Type: S	
Analysis Batch: 24622													Fieh	Type. (Joiubi
Analysis Datch. 24022	Sample	Sam	ole	Spike		MS	MS						%Rec		
	Result			Added		Result		fier	Unit		D	%Rec	Limits		
Analyte	nesuit														
Chloride Lab Sample ID: 880-14140-B-13-	3510	Quan		1250		4799			mg/Kg	Clien	t Sa	103	90 - 110): Matrix Sp		-
Chloride Lab Sample ID: 880-14140-B-13 Matrix: Solid	3510	Quali							mg/Kg	Clien	– t Sa): Matrix Sp	bike Du Type: \$	-
Analyte Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622	3510 -C MSD Sample	Samp	ble	1250 Spike		4799 MSD	MSD		mg/Kg	Clien		ample ID): Matrix Sp Prep %Rec	Type: \$	Soluble
Chloride Lab Sample ID: 880-14140-B-13 Matrix: Solid Analysis Batch: 24622 Analyte	3510 -C MSD Sample Result	Samp	ble	1250 Spike Added		4799 MSD Result		fier	mg/Kg Unit	Clien	_ t Sa	mple ID %Rec	9: Matrix Sp Prep %Rec Limits	Type: \$	Soluble RPI Limi
Chloride Lab Sample ID: 880-14140-B-13 Matrix: Solid Analysis Batch: 24622 Analyte	3510 -C MSD Sample	Samp	ble	1250 Spike		4799 MSD		fier	mg/Kg	Clien		ample ID): Matrix Sp Prep %Rec	Type: \$	Solubl RPI Lim
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride	3510 -C MSD Sample Result 3510	Samp	ble	1250 Spike Added		4799 MSD Result		fier	mg/Kg Unit	Clien	<u>D</u>	%Rec 102): Matrix Sp Prep %Rec Limits 90 - 110	Type: \$	Soluble RPI Limi
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1	3510 -C MSD Sample Result 3510	Samp	ble	1250 Spike Added		4799 MSD Result		fier	mg/Kg Unit	Clien	<u>D</u>	%Rec 102	9: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID:	Type: \$ <u>RPD</u> 0 Method	RPI Lim 2 d Blan
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid	3510 -C MSD Sample Result 3510	Samp	ble	1250 Spike Added		4799 MSD Result		fier	mg/Kg Unit	Clien	<u>D</u>	%Rec 102	9: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID:	Type: \$	RPI Limi 2 d Blanl
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid	3510 -C MSD Sample Result 3510	Samp	ble ifier	1250 Spike Added		4799 MSD Result		fier	mg/Kg Unit	Clien	<u>D</u>	%Rec 102	9: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID:	Type: \$ <u>RPD</u> 0 Method	RPI Limi 20
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637	3510 -C MSD Sample Result 3510 -A	Samı Quali	ble ifier	1250 Spike Added	RL	4799 MSD Result 4786			mg/Kg Unit	D	<u>D</u>	%Rec 102	9: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID:	Type: \$ RPD 0 Method Type: \$	RPI Limi 24 d Blani Soluble
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte	3510 -C MSD Sample Result 3510 -A	Samı Quali	ole ifier MB Qualifier	1250 Spike Added		4799 MSD Result 4786	Quali		Unit mg/Kg		<u>D</u>	%Rec 102 Client S	9: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep	Type: { RPD 0 Method Type: { ced	RPI Limi 2 d Blani Soluble Dil Fa
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride	3510 -C MSD Sample Result 3510 -A -A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added		4799 MSD Result 4786	Quali	Unit	Unit mg/Kg	<u>D</u>	D PI	%Rec 102 Client S	0: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 05/02/22	RPD 0 Method Type: \$ eed 11:52	RPI Lim 2 d Blan Solubl Dil Fa
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2	3510 -C MSD Sample Result 3510 -A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added		4799 MSD Result 4786	Quali	Unit	Unit mg/Kg	<u>D</u>	D PI	%Rec 102 Client S	2: Matrix Sp Prep %Rec Limits 90 - 110 Sample ID: Prep 	RPD 0 Method Type: ted 11:52	RPI Limi 2 d Blani Soluble Dil Fa
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid	3510 -C MSD Sample Result 3510 -A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added		4799 MSD Result 4786	Quali	Unit	Unit mg/Kg	<u>D</u>	D PI	%Rec 102 Client S	2: Matrix Sp Prep %Rec Limits 90 - 110 Sample ID: Prep 	RPD 0 Method Type: \$ eed 11:52	RPI Limi 2 d Blani Soluble Dil Fa
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid	3510 -C MSD Sample Result 3510 -A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added		4799 MSD Result 4786	Quali	Unit	Unit mg/Kg	<u>D</u>	D PI	%Rec 102 Client S	2: Matrix Sp Prep %Rec Limits 90 - 110 Sample ID: Prep 	RPD 0 Method Type: ted 11:52	Solubi RPI Limi 20 Blani Solubio Dil Fa
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte	3510 -C MSD Sample Result 3510 -A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added 1250		4799 MSD Result 4786	Quali MDL LCS	Unit mg/Kg	Unit mg/Kg	<u>D</u>	D PI	%Rec 102 Client S	2: Matrix Sp Prep %Rec Limits 90 - 110 Sample ID: Prep Analyz 05/02/22 PID: Lab Co Prep	RPD 0 Method Type: ted 11:52	Soluble RPE Limi 20 Blant Soluble Dil Fae Sample
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid Analysis Batch: 24637 Analyte Analysis Batch: 24637 Analyte	3510 -C MSD Sample Result 3510 -A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added 1250 Spike		4799 MSD Result 4786	Quali MDL LCS	Unit mg/Kg	Unit mg/Kg	<u>D</u>	D Pr	%Rec 102 Client S repared Sample	2: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 05/02/22 9 ID: Lab Co Prep %Rec	RPD 0 Method Type: ted 11:52	Soluble RPE Limi 20 Blant Soluble Dil Fae Sample
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Chlo	3510 -C MSD Sample Result 3510 -A -A 2-A	Samı Quali MB esult	ole ifier MB Qualifier	Spike Added 1250 Spike Added		4799 MSD Result 4786 LCS Result	Quali MDL LCS	Unit mg/Kg	Unit mg/Kg Unit mg/Kg	Cli	Pr Pr	%Rec 102 Client S repared Sample %Rec 93	2: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 05/02/22 e ID: Lab Co Prep %Rec Limits 90 - 110	Type: { RPD 0 Method Type: { red 11:52 ontrol { Type: { Type: {	Soluble RPI Limi 2 d Blanl Soluble Dil Fa Sample
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCSD 880-24626/2	3510 -C MSD Sample Result 3510 -A -A 2-A	Samı Quali MB esult	ole ifier MB Qualifier	Spike Added 1250 Spike Added		4799 MSD Result 4786 LCS Result	Quali MDL LCS	Unit mg/Kg	Unit mg/Kg Unit mg/Kg	Cli	Pr Pr	%Rec 102 Client S repared Sample %Rec 93	2: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 05/02/22 Prep %Rec Limits 90 - 110 Lab Control	RPD 0 Method Type: \$ eed 11:52 ontrol \$ Type: \$ ontrol \$ Type: \$	Solubi RP Lim 2 d Blan Solubi Dil Fa Sampl Solubi
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCSD 880-24626/2 Matrix: Solid	3510 -C MSD Sample Result 3510 -A -A 2-A	Samı Quali MB esult	ole ifier MB Qualifier	Spike Added 1250 Spike Added		4799 MSD Result 4786 LCS Result	Quali MDL LCS	Unit mg/Kg	Unit mg/Kg Unit mg/Kg	Cli	Pr Pr	%Rec 102 Client S repared Sample %Rec 93	2: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 05/02/22 Prep %Rec Limits 90 - 110 Lab Control	Type: { RPD 0 Method Type: { red 11:52 ontrol { Type: { Type: {	Solubi RPI Lim 2 d Blan Solubi Dil Fa Sample Solubi
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid Analysis Batch: 24637	3510 -C MSD Sample Result 3510 -A -A 2-A	Samı Quali MB esult	ole ifier MB Qualifier	1250 Spike Added 1250 Spike Added 250		4799 MSD Result 4786 LCS Result 232.5	Quali MDL LCS Quali	Unit mg/Kg fier	Unit mg/Kg Unit mg/Kg	Cli	Pr Pr	%Rec 102 Client S repared Sample %Rec 93	2: Matrix Sp Prep %Rec Limits 90 - 110 Sample ID: Prep Analyz 05/02/22 Prep %Rec Limits 90 - 110 Lab Contro Prep	RPD 0 Method Type: \$ eed 11:52 ontrol \$ Type: \$ ontrol \$ Type: \$	Soluble RPE Limi 20 Blank Soluble Dil Fac Soluble Soluble
Chloride Lab Sample ID: 880-14140-B-13- Matrix: Solid Analysis Batch: 24622 Analyte Chloride Lab Sample ID: MB 880-24626/1 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCS 880-24626/2 Matrix: Solid Analysis Batch: 24637 Analyte Chloride Lab Sample ID: LCSD 880-24626/2 Matrix: Solid	3510 -C MSD Sample Result 3510 -A -A 2-A	Samı Quali MB esult	ole ifier MB Qualifier	Spike Added 1250 Spike Added		4799 MSD Result 4786 LCS Result	Quali MDL LCS Quali	Unit mg/Kg fier	Unit mg/Kg Unit mg/Kg	Cli	Pr Pr	%Rec 102 Client S repared Sample %Rec 93	2: Matrix Sp Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 05/02/22 Prep %Rec Limits 90 - 110 Lab Control	RPD 0 Method Type: \$ eed 11:52 ontrol \$ Type: \$ ontrol \$ Type: \$	Soluble RPC Limi 20 d Blank Soluble Dil Fac Sample Soluble

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Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2261-1 SDG: 03A1987005

Method: 300.0 - Anions, Ion Chromatography

		Sample Qualifier	Spike Added	MS	MS					Type: So		2
nalysis Batch: 24637 Sa alyte F Ioride	Result	•		MS	MS					Type: 5	Oluble	
alyte F	Result	•		MS	MS							
alyte F	Result	•		MS	MS				0/ D			ļ
loride		Qualifier	Added				_	~ -	%Rec			
	223				Qualifier	Unit	D	%Rec	Limits			
b Sample ID: 890-2261-2 MSD			250	494.5		mg/Kg		109	90 - 110			
									Client Sam	nple ID:	SW06	
atrix: Solid										Type: So		
alysis Batch: 24637												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
alyte F	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
loride	223		250	477.2		mg/Kg		102	90 - 110	4	20	
												Ì

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QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

5 6 7

Job ID: 890-2261-1 SDG: 03A1987005

GC VOA

Prep Batch: 24437

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2261-1	SW05	Total/NA	Solid	5035	
890-2261-2	SW06	Total/NA	Solid	5035	
890-2261-3	SW07	Total/NA	Solid	5035	
890-2261-4	SW08	Total/NA	Solid	5035	
890-2261-5	SW09	Total/NA	Solid	5035	
890-2261-6	SW10	Total/NA	Solid	5035	
890-2261-7	SW11	Total/NA	Solid	5035	
890-2261-8	SW12	Total/NA	Solid	5035	
890-2261-9	SW13	Total/NA	Solid	5035	
890-2261-10	SW14	Total/NA	Solid	5035	
890-2261-11	FS23	Total/NA	Solid	5035	
890-2261-12	FS24	Total/NA	Solid	5035	
MB 880-24437/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-24437/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24437/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2261-1 MS	SW05	Total/NA	Solid	5035	
890-2261-1 MSD	SW05	Total/NA	Solid	5035	

Analysis Batch: 24636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-1	SW05	Total/NA	Solid	8021B	24437
890-2261-2	SW06	Total/NA	Solid	8021B	24437
890-2261-3	SW07	Total/NA	Solid	8021B	24437
890-2261-4	SW08	Total/NA	Solid	8021B	24437
890-2261-5	SW09	Total/NA	Solid	8021B	24437
890-2261-6	SW10	Total/NA	Solid	8021B	24437
890-2261-7	SW11	Total/NA	Solid	8021B	24437
890-2261-8	SW12	Total/NA	Solid	8021B	24437
890-2261-9	SW13	Total/NA	Solid	8021B	24437
890-2261-10	SW14	Total/NA	Solid	8021B	24437
890-2261-11	FS23	Total/NA	Solid	8021B	24437
890-2261-12	FS24	Total/NA	Solid	8021B	24437
MB 880-24437/5-B	Method Blank	Total/NA	Solid	8021B	24437
LCS 880-24437/1-A	Lab Control Sample	Total/NA	Solid	8021B	24437
LCSD 880-24437/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24437
890-2261-1 MS	SW05	Total/NA	Solid	8021B	24437
890-2261-1 MSD	SW05	Total/NA	Solid	8021B	24437

Analysis Batch: 24693

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2261-1	SW05	Total/NA	Solid	Total BTEX	
890-2261-2	SW06	Total/NA	Solid	Total BTEX	
890-2261-3	SW07	Total/NA	Solid	Total BTEX	
890-2261-4	SW08	Total/NA	Solid	Total BTEX	
890-2261-5	SW09	Total/NA	Solid	Total BTEX	
890-2261-6	SW10	Total/NA	Solid	Total BTEX	
890-2261-7	SW11	Total/NA	Solid	Total BTEX	
890-2261-8	SW12	Total/NA	Solid	Total BTEX	
890-2261-9	SW13	Total/NA	Solid	Total BTEX	
890-2261-10	SW14	Total/NA	Solid	Total BTEX	
890-2261-11	FS23	Total/NA	Solid	Total BTEX	

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GC VOA (Continued)

Analysis Batch: 24693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-12	FS24	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24605

Lab Sample ID	Client Sample ID		Matrix	Method	Prep Batch
890-2261-1	SW05	Total/NA	Solid	8015NM Prep	
890-2261-2	SW06	Total/NA	Solid	8015NM Prep	
890-2261-3	SW07	Total/NA	Solid	8015NM Prep	
890-2261-4	SW08	Total/NA	Solid	8015NM Prep	
890-2261-5	SW09	Total/NA	Solid	8015NM Prep	
890-2261-6	SW10	Total/NA	Solid	8015NM Prep	
890-2261-7	SW11	Total/NA	Solid	8015NM Prep	
890-2261-8	SW12	Total/NA	Solid	8015NM Prep	
890-2261-9	SW13	Total/NA	Solid	8015NM Prep	
890-2261-10	SW14	Total/NA	Solid	8015NM Prep	
890-2261-11	FS23	Total/NA	Solid	8015NM Prep	
890-2261-12	FS24	Total/NA	Solid	8015NM Prep	
MB 880-24605/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24605/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2261-1 MS	SW05	Total/NA	Solid	8015NM Prep	
890-2261-1 MSD	SW05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24615

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2261-1	SW05	Total/NA	Solid	8015B NM	24605
890-2261-2	SW06	Total/NA	Solid	8015B NM	24605
890-2261-3	SW07	Total/NA	Solid	8015B NM	24605
890-2261-4	SW08	Total/NA	Solid	8015B NM	24605
890-2261-5	SW09	Total/NA	Solid	8015B NM	24605
890-2261-6	SW10	Total/NA	Solid	8015B NM	24605
890-2261-7	SW11	Total/NA	Solid	8015B NM	24605
890-2261-8	SW12	Total/NA	Solid	8015B NM	24605
890-2261-9	SW13	Total/NA	Solid	8015B NM	24605
890-2261-10	SW14	Total/NA	Solid	8015B NM	24605
890-2261-11	FS23	Total/NA	Solid	8015B NM	24605
890-2261-12	FS24	Total/NA	Solid	8015B NM	24605
MB 880-24605/1-A	Method Blank	Total/NA	Solid	8015B NM	24605
LCS 880-24605/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24605
LCSD 880-24605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24605
890-2261-1 MS	SW05	Total/NA	Solid	8015B NM	24605
890-2261-1 MSD	SW05	Total/NA	Solid	8015B NM	24605

Analysis Batch: 24695

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2261-1	SW05	Total/NA	Solid	8015 NM	
890-2261-2	SW06	Total/NA	Solid	8015 NM	
890-2261-3	SW07	Total/NA	Solid	8015 NM	
890-2261-4	SW08	Total/NA	Solid	8015 NM	
890-2261-5	SW09	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

GC Semi VOA (Continued)

Analysis Batch: 24695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2261-6	SW10	Total/NA	Solid	8015 NM	
890-2261-7	SW11	Total/NA	Solid	8015 NM	
890-2261-8	SW12	Total/NA	Solid	8015 NM	
890-2261-9	SW13	Total/NA	Solid	8015 NM	
890-2261-10	SW14	Total/NA	Solid	8015 NM	
890-2261-11	FS23	Total/NA	Solid	8015 NM	
890-2261-12	FS24	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-12	FS24	Soluble	Solid	DI Leach	
MB 880-24340/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24340/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24340/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14140-B-13-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14140-B-13-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 24622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-12	FS24	Soluble	Solid	300.0	24340
MB 880-24340/1-A	Method Blank	Soluble	Solid	300.0	24340
LCS 880-24340/2-A	Lab Control Sample	Soluble	Solid	300.0	24340
LCSD 880-24340/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24340
880-14140-B-13-B MS	Matrix Spike	Soluble	Solid	300.0	24340
880-14140-B-13-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24340

Leach Batch: 24626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2261-1	SW05	Soluble	Solid	DI Leach	
890-2261-2	SW06	Soluble	Solid	DI Leach	
890-2261-3	SW07	Soluble	Solid	DI Leach	
890-2261-4	SW08	Soluble	Solid	DI Leach	
890-2261-5	SW09	Soluble	Solid	DI Leach	
890-2261-6	SW10	Soluble	Solid	DI Leach	
890-2261-7	SW11	Soluble	Solid	DI Leach	
390-2261-8	SW12	Soluble	Solid	DI Leach	
890-2261-9	SW13	Soluble	Solid	DI Leach	
890-2261-10	SW14	Soluble	Solid	DI Leach	
890-2261-11	FS23	Soluble	Solid	DI Leach	
MB 880-24626/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-24626/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-24626/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2261-2 MS	SW06	Soluble	Solid	DI Leach	
890-2261-2 MSD	SW06	Soluble	Solid	DI Leach	

Analysis Batch: 24637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-1	SW05	Soluble	Solid	300.0	24626
890-2261-2	SW06	Soluble	Solid	300.0	24626

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Job ID: 890-2261-1 SDG: 03A1987005

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

HPLC/IC (Continued)

Analysis Batch: 24637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-3	SW07	Soluble	Solid	300.0	24626
890-2261-4	SW08	Soluble	Solid	300.0	24626
890-2261-5	SW09	Soluble	Solid	300.0	24626
890-2261-6	SW10	Soluble	Solid	300.0	24626
890-2261-7	SW11	Soluble	Solid	300.0	24626
890-2261-8	SW12	Soluble	Solid	300.0	24626
890-2261-9	SW13	Soluble	Solid	300.0	24626
890-2261-10	SW14	Soluble	Solid	300.0	24626
890-2261-11	FS23	Soluble	Solid	300.0	24626
MB 880-24626/1-A	Method Blank	Soluble	Solid	300.0	24626
LCS 880-24626/2-A	Lab Control Sample	Soluble	Solid	300.0	24626
LCSD 880-24626/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24626
890-2261-2 MS	SW06	Soluble	Solid	300.0	24626
890-2261-2 MSD	SW06	Soluble	Solid	300.0	24626

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Job ID: 890-2261-1 SDG: 03A1987005

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Job ID: 890-2261-1 SDG: 03A1987005

Lab Sample ID: 890-2261-1 Matrix: Solid

Lab Sample ID: 890-2261-2

Date Collected: 04/28/22 09:00 Date Received: 04/28/22 16:18

Client Sample ID: SW05

Client: Ensolum

Ргер Туре	Batch	Batch Method		Dil	Initial Final	Final	Batch	Prepared		
	Туре		Run Factor	Amount Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			4.99 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 13:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 12:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 13:34	СН	XEN MID

Client Sample ID: SW06

Date Collected: 04/28/22 09:05

Date Received: 04/28/22 16:18

	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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 13:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 13:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 13:40	СН	XEN MID

Client Sample ID: SW07

Date Collected: 04/28/22 09:15

Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 14:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 13:59	СН	XEN MID

Client Sample ID: SW08 Date Collected: 04/28/22 09:20 Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 14:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID

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Matrix: Solid

Lab Sample ID: 890-2261-4

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Matrix: Solid

Matrix: Solid

Released to Imaging: 5/23/2023 8:29:46 AM

Job ID: 890-2261-1 SDG: 03A1987005

Lab Sample ID: 890-2261-4 Matrix: Solid

Date Collected: 04/28/22 09:20 Date Received: 04/28/22 16:18

Client Sample ID: SW08

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 14:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:06	СН	XEN MID

Client Sample ID: SW09

Date Collected: 04/28/22 09:25 Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 14:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:25	CH	XEN MID

Client Sample ID: SW10

Date Collected: 04/28/22 09:30 Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 15:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:31	СН	XEN MID

Client Sample ID: SW11

Date Collected: 04/28/22 09:45 Date Received: 04/28/22 16:18

	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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 15:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 15:07	AJ	XEN MID

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Matrix: Solid

5 Lab Sample ID: 890-2261-5 9 Matrix: Solid

Lab Sample ID: 890-2261-6

Lab Sample ID: 890-2261-7

Matrix: Solid

Lab Chronicle

Job ID: 890-2261-1 SDG: 03A1987005

Lab Sample ID: 890-2261-7

Lab Sample ID: 890-2261-8

Date Collected: 04/28/22 09:45 Date Received: 04/28/22 16:18

Client Sample ID: SW11

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:37	СН	XEN MID

Client Sample ID: SW12

Date Collected: 04/28/22 09:50 Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 15:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:44	СН	XEN MID

Client Sample ID: SW13 Date Collected: 04/28/22 09:55

Date Received: 04/28/22 16:18

	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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 16:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 15:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:50	СН	XEN MID

Client Sample ID: SW14 Date Collected: 04/28/22 10:00 Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 16:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 16:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24626	05/02/22 09:25	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24637	05/02/22 14:56	CH	XEN MID

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Matrix: Solid

Lab Sample ID: 890-2261-9 Matrix: Solid

Lab Sample ID: 890-2261-10

Matrix: Solid

Matrix: Solid 9

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Client Sample ID: FS23

Date Collected: 04/28/22 09:35

Date Received: 04/28/22 16:18

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

4.96 g

10.03 g

5.05 g

0 mL

Final

Amount

5 mL

10 mL

50 mL

1.0 mL

Batch

24437

24636

24693

24695

24605

24615

24626

24637

Number

Dil

1

1

1

1

1

Factor

Run

Job ID: 890-2261-1 SDG: 03A1987005

Lab Sample ID: 890-2261-11

Analyst

MR

MR

AJ

AJ

DM

AJ

SC

СН

Prepared

or Analyzed

05/02/22 08:00

05/02/22 18:09

05/02/22 21:55

05/02/22 21:57

05/02/22 08:30

05/02/22 16:55

05/02/22 09:25

05/02/22 15:03

Matrix: Solid

Lab

XEN MID

9

XEN MID Lab Sample ID: 890-2261-12 Matrix: Solid

Date Collected: 04/28/22 09:40 Date Received: 04/28/22 16:18

Client Sample ID: FS24

	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	24437	05/02/22 08:00	MR	XEN MID
Total/NA	Analysis	8021B		1			24636	05/02/22 18:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24693	05/02/22 21:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24695	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24340	05/02/22 09:23	SC	XEN MID
Soluble	Analysis	300.0		1			24622	05/02/22 12:50	СН	XEN MID

Laboratory References:

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

Eurofins Carlsbad

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	A	ccreditation/C	ertification Summary		
Client: Ensolum Project/Site: North Brus	shy Draw 35-2H			Job ID: 890-2261-1 SDG: 03A1987005	2
Laboratory: Eurofi					
Unless otherwise noted, all a	nalytes for this laboratory wer	e covered under each acc	reditation/certification below.		
Authority	Pro	gram	Identification Number	Expiration Date	
Texas	NE	LAP	T104704400-21-22	06-30-22	E
The following analytes a	are included in this report, but	the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not off					
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13
					14

Eurofins Carlsbad

.

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2261-1 SDG: 03A1987005

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2261-1	SW05	Solid	04/28/22 09:00	04/28/22 16:18	0 - 14
890-2261-2	SW06	Solid	04/28/22 09:05	04/28/22 16:18	0 - 14
890-2261-3	SW07	Solid	04/28/22 09:15	04/28/22 16:18	0 - 14
890-2261-4	SW08	Solid	04/28/22 09:20	04/28/22 16:18	0 - 14
890-2261-5	SW09	Solid	04/28/22 09:25	04/28/22 16:18	0 - 14
890-2261-6	SW10	Solid	04/28/22 09:30	04/28/22 16:18	0 - 14
890-2261-7	SW11	Solid	04/28/22 09:45	04/28/22 16:18	0 - 14
890-2261-8	SW12	Solid	04/28/22 09:50	04/28/22 16:18	0 - 14
890-2261-9	SW13	Solid	04/28/22 09:55	04/28/22 16:18	0 - 14
890-2261-10	SW14	Solid	04/28/22 10:00	04/28/22 16:18	0 - 14
890-2261-11	FS23	Solid	04/28/22 09:35	04/28/22 16:18	3 - 14
890-2261-12	FS24	Solid	04/28/22 09:40	04/28/22 16:18	3 - 14

		Environment Testing	sting	Midlan	d, TX (432) 7	14-5440, San Anti	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	3334	Work Order No:	r No:	
	Xenco	ľ		EL Pa Hobt	so, TX (915) s, NM (575)	85-3443, Lubbou	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	96	r.		-
							5		www.xenco.com	co.com Page	ot
Project Manager:	CHATE ANNH			Bill to: (if different)	ot)	Jan Koner	12				
Company Name:	EUSOLUM			Company Name:		01					
Address: 313	3122 NATIONAL PARKS HWY	- PARKS	Lat	Address:		S315 BUI	BUDUA VISTA	De.	Project:	[
City, State ZIP:	- 4	NN 88	88220	City, State ZIP:		CARLS BAD	WN'	BB220 Reportin	eve	PST/UST	
Phone:		1569-	Email:	ABYERS	0	twolver, com	Con	Deliverables:	bles: EDD	ADaPT	Other:
Name:	NORTH BENSHY DRAW 35-2H	2-25 M		Turn Around				ANALYSIS REQUEST		Preser	Preservative Codes
er:	0341987005		Rout	Rush 24HK	Pres.					None: NO	DI Water: H ₂ O
	BOY COUNTY, NM	ww	Due Date:			(6			Cool: Cool	MeOH: Me
	GILBURT MORENO	ona	TAT starts the	TAT starts the day received by		हा (HCL: HC	HNO 3: HN
PO #: /6	106/12/501		the lab, if reci	the lab, if received by 4:30pm	-	12				H 250 4: H 2	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes to	Wet Ice:	Ves No	-	08				H3PO 4: HP	
Samples Received Intact:	Yes No	Thermometer ID:	H	-mm	aram	5 6				NaHSO 4: NABIS	ABIS
Cooler Custody Seals:	Yes No NITA	Correction Factor:	actor:	0.0-		HE	_			Na 25 203: NaSO	aSO 3
Sample Custody Seals:	Yes No N/A	Temperature Reading:	e Reading:	0.9	-	2)	1	890-2261 Chain of Custody		Zn Acetate+NaOH: Zn	NaOH: Zn
Total Containers:		Corrected Temperature:	emperature:	0.4	Т	X				NaOH+Ascol	NaOH+Ascorbic Acid: SAPC
Sample Identification	on Matrix	Date Sampled	Time Sampled	Depth Grab/	# of Cont	H) US aL				Sampl	Sample Comments
SWOS	S	4-26-22		5						INCIDENT	7 10
SW OG		-			-					NEW ZOIHIY	5894147987
CW 07			21:60		-						
5608			09:20		-						
POWS.			22:00		-						
OT MY			04:30		-	<					
520			24:40		-						
< 10 12			04:50		-						
541 13			09:55								
Sw 14	>	>	00:01	~ ~						_	
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: Metal(s) to be ana		8RCRA 13PPM TCLP / SPL	Texas 11 6010 : 8F	AI Sb As CRA Sb /	b As Ba Be B C Sb As Ba Be Cd	Sb As Ba Be B Cd Ca Cr Co \ Sb As Ba Be Cd Cr Co Cu Pl	r Co Cu Fe Pb Mg Mn Mo Ni Cu Pb Mn Mo Ni Se Ag Tl U	Vi K Se Ag SiO ₂ Hg: 1631,	Na Sr Tl Sn U V Z / 245.1 / 7470 / 7471	Zn 71
: Signature of this document rice. Eurofins Xenco will be lia ofins Xenco. A minimum char	and relinquishment of samp ible only for the cost of sam ge of \$85.00 will be applied	ples constitutes a v ples and shall not to each project a	alid purchase ord assume any respo od a charge of \$5	er from client compa- nsibility for any losses for each sample subn	ny to Eurofins) or expenses in hitted to Eurofi	enco, its affiliates a curred by the clien is Xenco, but not a.	ind subcontractors. It it if such losses are du nalyzed. These terms	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, his 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 service. Survice, Survice, Survice, Amount on the control of service and sech project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotated.	ns bl gotiated.		
Relinquished by: (Signature)	nature)	Received t	Received by: (Signature)	(3	Q	Date/Time	Relinquis	Relinquished by: (Signature)	Received by: (Signature)	jnature)	Date/Time
MGMO)	R	lar h	4		SC.H	166.2	1218				
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5/3/2022

Iterating Iterating Month Offer Not- National Y (193) 204-500, Data Y, 2019 2033 304 Work Order Not- National Y (193) 204-500, Data Y, 2019 203 315 Iterating Iterating Iterating Iterating Month Offer Not- Entrating Iterating Iterating Iterating Month Offer Con- Entrating Iterating Iterating Iterating Iterating Iterating Iterating Iterating Ite	ed by OCD: 1		Brownfields RRC Superfund		ST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	Cool: Cool MeOH: Me HCL: HC HNO 3: HN	H ₂ S0 4: H ₂ NaOH: Na	H 3PO 4: HP		Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	INCIDENT 10	VENZOIHIY7987	Jul Harn	Constant to an The Municipal		1. 11 A	TI Sn U V Zn /7470 /7471		Date/Time	Pa
Environment Testing Kenco Induter (X (21) 304 - 000 Dala): (X (21) 909 - 314 Medea, (X (23) 908 - 318 Medea, (X (23) 908 - 314 Medea, (X (24) 708 - 314 Meda	Work Order No:	Work Order Comments					UEST							2					0	NO		vi K Se Ag SiO ₂ Na Sr Hg: 1631/245.1	rms and conditions reyond the control ess previously negoliated.	ture) Received by: (Signature)	
Environment Testing Houston, TX (alload, TX (all	281) 240-4200. Dallas, TX (214) 902-0300 2) 704-5440. San Antonio, TX (210) 509-3334 5) 585-3443. Lubbock, TX (806) 794-1296 5) 392-7550. Carlsbad, NM (575) 988-3199		WYX	BUBUA VISTA	CARTER NUN 88220	ENSOLUN.	ANALYSIS REQ		(o	100E	2 Ha 1200	13,) 30 bai	1101 () 2)	-440 (218) (418)		K			X		As Ba Be B Cd Ca Cr Co Cu Fe Pb M As Ba Be Cd Cr Co Cu Pb Mn Mo Ni b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	ins Xenco, its affiliates and subcontractors. It assigns standard te as incurred by the client if such losses are due to circumstances I urofins Xenco, but not analyzed. These terms will be enforced uni	Date/Time Relinquished by: (Signa	
Environment Testing Xenco RYZES RYZES RUW WMJauryL RUM WMJauryL RYZES RUM REAT RUM REAT RUM REAT RUM REAT RUM REAT RUM REAL	Houston, TX (2 Midland, TX (432 EL Paso, TX (91; Hobbs, NM (57	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	ABYERS	n Around	Rush 2414 Pres.	le day received by			9181	đ		Grab/ Comp	-			-	- · -	and -	PM Texas 11 AI Sb PLP 6010 : 8RCRA St	rder from client company to Eurofi oonsibility for any losses or expense 5 for each sample submitted to Eu	re)	4.0
ect Manager: Awwt ect Manager: Awwt pany Name: Evoo iess: 3/22 ect Number: 3/22 ne: 575 ne: 575 ne: 575 ne: 575 ne: 575 ne: 670 nor pler's Name: 670 nor har nor har nor har nor har nor har nor har nor har nor har nor har nor har nor har nor har nor har har har har har har har har har ha		RYDRS	Jum .	Pault Parks	WN CHES	4		Bout	UN	10	Yes No	No	N/A N/A		Date Sampled	4-29-22	H-28-22		1 20 20	77.97.1	71.52-6	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13P Circle Method(s) and Metal(s) to be analyzed TCLP / i	elinquishment of samples constitutes a valid purchase o. my for the cost of samples and shall not assume any res (385.00 will be applied to each project and a charge of \$	Relinquished by: (Signature) A Received by: (Signatu	o Clarling

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12 13 14

Page 33 of 38

Eurofins Carlsbad		
089 N Canal St.		
Cartsbad, NM 88220		

Chain of Custody Record

13



Kelinquisned by:	shec	Possible Hazard Ident Unconfirmed Deliverable Requested Empty Kit Relinguished	Note: Since laboratory accrec laboratory does not currently accreditation status should b		FS26 (890-2261-14)	FS25 (890-2261-13)	Sample Identification

	Relinquished by D		Relinquished by (JM (1) 4.29.20 P	Empty Kit Relinquished by	Deliverable Requested II III IV Other (specify)		Inver-since laboratory accreatiations are subject to change Eutronins Environment lesting South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC alternation will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	Ninter Sinon Inhoration: nononditations and arbitrat to shown Franken Trainman of t						FS26 (890-2261-14)	FS25 (890-2261-13)		Sample Identification - Client ID (Lab ID)	vite of	th Brushy Draw 35-2H		9 704-5440(Tel)	5701		V Florida Ave, ,	s Environment Testing South Centr	ceiving	Client Information (Sub Contract Lab)	Cartsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199		Luivillo valiobau
	Date/Time [,]	Date/Time [.]	Date/Time		Primary Deliverable Rank 2		sting South Cen for analysis/test I LLC attention i							4/28/22	4/28/22	X	Sample Date	SSOW#	Project #: 89000084	WO#	PO#		TAT Requested (days):	5/6/2022			Sampler		_	
				Date	rable Rank 2		tral LLC places s/matrix being an mmediately If a							14 00 Mountain	12 00 Mountain	X	Sample Time						lays):	90. 190					Chain of Custody Record	
	Q	0	0				he ownership of halyzed the sam Il requested acci									Preservation Code:	Sample Type (C=comp, G=grab)												of Cuist	
	Company	Company	Company				method analy ples must be sl editations are c							Solid	Solid	m Code: 🔉	Matrix (W=water S=solid, C=waste/oll, BT=TIssue, A=Air)	Camp							7	Jessic	Lab PM Krame		ndv Re	
		71		Time.	Spec	Sam	e & accr hipped ba urrent to		ļ					_		\widehat{X}	Perform MS/I	N SD (Y		sector de la companya	5,	, ,	/ 4-		Accreatations Required (See note) NELAP - Texas	Mail Jessica Kramer@et.eurofinsus.com	Lab PM Kramer, Jessica			
Cooler Temperature(s) °C	Received by	Received by	Receives	Z	Special Instructions/QC	Sample Disposal (A fee	editation ack to the date re						 	××	××		8015MOD_Cal		IS PI	ep Full	трн				- Texa	er@e	ICa	1	2	
empera	by:	by	3		tructic	le Disposal (A f u Return To Client	t compl le Eurol sturn th						 	×	×		- 300_ORGFM_2	8D/DI_I	EACH	Chlori	de				quirea (euro				
ture(s)		ξ	2		ns/Q	al (A Clien	iance u fins En e signe							×	×		8021B/5035FP	_Calc B	TEX					Anal	See no	linsus				
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		S. S.	2			assessed if samples are retained longer than 1 Disposal By Lab Archive For	s forwarded under ch nstructions will be pro ns Environment Test										Special In	Other-		Ice DI Water	MeOn Amchlor Ascorbic Acid	Nitric Acid NaHSO4	B NaOH C Zn Acetate	ration Coc	Job # [.] 890-2261-2	Page Page 1 of 1	COC No: 890-736 1		seurofins .	
	Company	Company	Company			than 1 month) Months	nain-of-custody If the ovided. Any changes to ing South Central LLC.										Special Instructions/Note.		Z other (specify)	U Acetone V MCAA	K NaZSZU3 S H2SO4 T - TSP Dodecahydrate	P Na2O4S Q Na2SO3	M Hexane N None O - AsNaO2					America	Environment Testing	

Ver 06/08/2021

Eurofins Carlsbad

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Chain of Cu n U



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Carlsbad NM 88220 Dhone: 575.088.3100 Eav: 575.088.3100	c				ec.																America
Client Information (Sub Contract Lab)	Sampler			Lab PM	Lab PM Kramer Tessica	eeina -						р С	Carrier Tracking No(s)	racki	No BL	(s)			0 0		
	Phone:			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus	amer(Øjet.e	urofir		6 m		z জ	State of Origin: New Mexico							Page: Page 1 of 2	
Company Eurofins Environment Testing South Centr					Accreditations Requ	creditations Required (See not ELAP - Texas	Requi	ired (S		e);		ŀ							<u>م ج</u>	Job #. 890-2261-1	
Address 1211 W Florida Ave,	Due Date Requested 5/2/2022	_							A	alvsis		Requested	este	ă						n Code	8 S
City Midland	TAT Requested (days):	s):			<u>9</u> 5 2]]	<u></u> '				-				mymag	ע מו	HCL NaOH	M Hexane N - None
State Zip: TX, 79701					<u>.</u> 577	294.97 (m. 22)														Nitric Acid NaHSO4	Q Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO #:				<u>}</u>	<u> </u>	TPH	le				<u> </u>						and the	د ۵ ۳		R Na2S2O3 S H2SO4
Email	WO#				12022/02**10000		p Full	Chloric						<u> </u>					And All All	Ice DI Water	 I - Lor Dovecallyulate U Acetone V - MCAA
Project Name North Brushy Draw 35-2H	Project # 89000084				0.0000000000000000000000000000000000000		_S_Pre	EACH	EX												W pH 4-5 Z other (specify)
Site	SSOW#:				57755 (150) Policies		015NM	D/DI_L	Calc B1	v	<u> </u>							1. <u>2</u> 1/ 700	2010.000.7057	Other-	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) B	Matrix (W=water S=solid, O=waste/oli, BT=TIssue, A=Air)	Field Filtered S Perform MS/M	8015MOD_Calc	8015MOD_NM/8	300_ORGFM_28	8021B/5036FP_0	Total_BTEX_GC									Total Number	Special In	Special Instructions/Note-
	X	X	Preservation Code:	on Code:	\bigotimes			i i		e atta	antia P				Sheets	abe S			Å		
SW05 (890-2261-1)	4/28/22	Mountain		Solid		×	×	×	×	×								E.W.Z.M	4		
SW06 (890-2261-2)	4/28/22	09 05 Mountain		Solid		×	×	×	×	×								1928 - 42	.		
SW07 (890-2261-3)	4/28/22	09 15 Mountain		Solid		×	×	×	×	×								6.1° 2087 0			
SW08 (890-2261-4)	4/28/22	09 20 Mountain		Solid		х	×	×	×	<u>×</u>								1.2527			
SW09 (890-2261-5)	4/28/22	09 25 Mountain		Solid		×	×	×	×	×								5 X 8	Ż		
SW10 (890-2261-8)	4/28/22	09 30 Mountain		Solid		×	×	×	×	×								9-1- <u>9</u> 29-1-9		1	
SW11 (890-2261-7)	4/28/22	09 45 Mountain		Solid		×	×	×	×	×								1. 1391.8 2	4		
SW12 (890-2261-8)	4/28/22	09 50 Mountain		Solid		×	×	×	×	×											
SW13 (890-2261-9)	4/28/22	09 55 Mountain		Solid		×	×	×	×	×											
Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	Testing South Central ve for analysis/tests/n tral LLC attention imm	LLC places i natrix being an nediately If a	the ownership c nalyzed, the sar Il requested acc	of method anal nples must be preditations are	yte & a shipped curren	ccredit d back t to dat	ation o to the l	omplia Eurofir m the	nce up Is Env signed	ion ou Chair	t subo Int Tes I of Cu	ting Stody	t labou outh (attest	atorie Sentra	said of said	lis sar labo	nple ; ratory icanci	or of	ent is her in urofin	s forwarded under ch structions will be pro	tain-of-custody If the ovided Any changes to ing South Central LLC.
Possible Hazard Identification					S		Dis	osal	Â	ee m		ass	ess	; d #	sam	ples	are	⊔ reta	inec	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	month)
Deliverable Requested II III IV, Other (specify)	Primary Deliverable Rank	ole Rank 2			ŝ	Special Instructions/QC	al Instructions/QC	Lation	IS/QC		Requirements	Tents	ents	ļ	I.				ġ		monus
Empty Kit Relinquished by		Date			Time								Z	Method of Shipment:	of St	ipme	Ť				
Relinquished by: Uwly 4.29.2	Date/Time Date/Time			Company Company		Reco	Received by	\mathcal{A}	E							Date/Time		5	드	z	Company Company
Relinquished by	Date/Time [.]			Company		Rece	Received by	Y								Date/Time	me				Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Cool	Cooler Temperature(s) °C and Other Remarks	iperatu	ne(s)	Cand	Other	Rema	arks.		ļ						

Ver 06/08/2021

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax: 5

Chain of Custody Record

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Seurofins Environment Testing

ax: 575-988-3199			
	Sampler:	Lab PM	Carrier Tracking No(s)
(Sub Contract Lab)	Kn Kn	Kramer Jessica	
	Phone: E-A	E-Mail	State of Origin
	Je	Jessica Kramer@et.eurofinsus com	New Mexico
		Accreditations Required (See note):	
sting South Centr		NELAP - Texas	
	Due Date Requested		
	5/2/2022	Analysis Requested	quested
	TAT Requested (days)		
	PO #	трн	
	WO #:	Full	

Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer Jessica	ssica	-						Carrier Tracking No(s)	Track	ing No	(s)			<u>ಹ ೧</u>	COC No [.] 890-736 2			
	Phone:			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus cor	mer	met.	urofi	SUSU			- (0)	State of Origin	f Origi	5 3				0.0	Page [.] Page 2 of 2			1
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	P - T	s Requ	iired (S	See no	<u>(e)</u>									<u>ی</u> م	Job # [.] 890-2261-1			1
Address 1211 W Flonda Ave,	Due Date Requested 5/2/2022	u.							₽	Analys	'sis F	ếg	Requested	å						Preservation Codes	odes	1	
City Midland	TAT Requested (days)	/s)				<u> </u>												<u>線力でです</u>			ヽ ァァ	M Hexane N None	
State, Zip TX 79701																		ananguna ter	<u>ultranilla</u>	D - Nitric Acid E NaHSO4	077		
Phone 432-704-5440(Tel)	PO #				<u>)</u>		трн	le											<u> Manan I</u>	F MeOH G Amchlor H Ascorbic Acid		R Na2S2O3 S H2SO4 T TSP Dodecebudrate	•
Email:	WO #:						p Full	Chlorid								<u></u>		5	Sastalalle				a
Project Name: North Brushy Draw 35-2H	Project # 89000084						S_Pre	EACH	EX				*****					(104000582	11652.4846	K EDTA L EDA	N	W pH 4-5 Z other (specify)	
Site	SSOW#:						NM_	N_LE	BTI									95.200	33777.3	Other [.]			
						2	8015N	8D/DI_	_Calc i	cv								W(1.520.0575	95.5 <i>5</i> ,9673	Aner.			
			Sample Type	Matrix (W=water S=solid	Filtered	IOD_Cald	IOD_NM/	RGFM_2	6035FP	BTEX_G									Numbe				
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT	<u>ت</u>	- Perception of	801	8010	300_	8021	Tota					1000				Tota	Special	Inst	Special Instructions/Note:	
	X	X	Preservation Code:	on Code:	X			6.8.1	Ser.A		i.	And the second s	Sale of the second	1	Anger	l atta	antes P		X		$\ $		
SW14 (890-2261-10)	4/28/22	Mountain		Solid		×	×	×	×	×								57 25-28	4				
FS23 (890-2261-11)	4/28/22	09 35 Mountain		Solid		×	×	×	×	×								ensia	4				
FS24 (890-2261-12)	4/28/22	09 40 Mountain		Solid		×	×	×	×	×					<u> </u>	ļ		167-1220-18					
						-												A CONTRACT	<u></u>				
																		2 247.63					
					+														<u>L.</u>				
					+	1	1																
					-									ļ					č Brosti				
Invore since leave and your exceeditation cannot be subject to claring be comment testing south Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC attention immediately.	t Lesting South Centra ove for analysis/tests/r htral, LLC attention imr	natrix being an matrix being an mediately If al	he ownership of alyzed the sam I requested acc	f method, analinples must be reditations are	/te & a shipped curren	d back t to da	to the te return	Somplia Eurofi	ns En signe	vironn d Cha	in of C	contra esting Justod	ct labo South y attes	Centr ting to	al Lu said	C labo	nple s ratory icanci	e to E	ent is her in urofir	s forwarded undenstructions will be structions will be s Environment 7	e provi Testing	iin-of-custody If the vided. Any changes to ng South Central LLC.	
Possible Hazard Identification					Sa	Sample Disposal (A fee	e Dis	posa	I(A		nay I	∐e as	sess	ed ii	san	ip/es	are	∐ e	ine	may be assessed if samples are retained longer than 1 month)	11	nonth)	
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			ŝ	Special Instructions/QC Requirements	al Instructions/QC	uctio	ns/Q	CRe	quire	men	ents	li s								monuna	
Empty Kit Relinguished by		Date			Time.		ا د						_	Method of Shipment:	f of SI	lipme	5						
Relinquished by Clare (24, 4.29.20)	Date/Time		0	Company		Reb	acada day	12	Ģ	P			Ļ			Date	<u>_</u>	も		5]	Company	1
Relinquished by:	Date/Time		0	Company		Reto	Received by	¥,								Date/Time	ime:	k	1	ŕ		Company	1
Relinquished by	Date/Time		- c	Company		Rec	Received by	y.								Date/Time	íme.					Company	- 1
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Coo	Cooler Temperature(s) °C a	nperat	ure(s)	°Can	nd Other Remarks.	er Ren	larks.		ļ						Ļ		
						-																	

Ver 06/08/2021

Job Number: 890-2261-1 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2261 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 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 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 True HTs) 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 True MS/MSDs

N/A

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

14

Job Number: 890-2261-1 SDG Number: 03A1987005

List Source: Eurofins Midland

List Creation: 05/02/22 08:06 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2261 List Number: 2 Creator: Teel, Brianna

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

Received by OCD: 1/25/2023 12:00:26 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2261-2

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: North Brushy Draw 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

RAMER

Authorized for release by: 5/10/2022 6:28:08 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 5/23/2023 8:29:46 AM

Laboratory Job ID: 890-2261-2 SDG: 03A1987005

Table of Contents

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	12
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Sample Summary	17
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Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

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

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

DL

DLC EDL

LOD

LOQ MCL

MDA

MDC MDL

ML

MPN MQL

NC

ND

NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

DL, RA, RE, IN

	Definitions/Glossary		
Client: Ensolur Project/Site: N	n orth Brushy Draw 35-2H	Job ID: 890-2261-2 SDG: 03A1987005	ī
Qualifiers			i
GC VOA			ł
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		÷.
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA Qualifier	Qualifier Description		ī
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		2
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		J
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		

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

4

5

Job ID: 890-2261-2 SDG: 03A1987005

Job ID: 890-2261-2

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2261-2

Receipt

The samples were received on 4/28/2022 4:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

GC VOA

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

GC Semi VOA

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 880-24652 and analytical batch 880-24754 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Job ID: 890-2261-2 SDG: 03A1987005

Client Sample ID: FS25

Date Collected: 04/28/22 12:00 Date Received: 04/28/22 16:18

Sample Depth: 1

Client: Ensolum

Lab Sample ID: 890-2261-13

	A	~	12.4
wa	trix:	50	DIIC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/09/22 11:44	05/10/22 16:35	
Toluene	<0.00199	U	0.00199		mg/Kg		05/09/22 11:44	05/10/22 16:35	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/09/22 11:44	05/10/22 16:35	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/09/22 11:44	05/10/22 16:35	
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/09/22 11:44	05/10/22 16:35	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/09/22 11:44	05/10/22 16:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				05/09/22 11:44	05/10/22 16:35	
1,4-Difluorobenzene (Surr)	87		70 - 130				05/09/22 11:44	05/10/22 16:35	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/10/22 19:13	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			05/02/22 21:57	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 17:39	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 17:39	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 17:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	110		70 - 130				05/02/22 08:30	05/02/22 17:39	
o-Terphenyl	112		70 - 130				05/02/22 08:30	05/02/22 17:39	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	458		4.97		mg/Kg			05/05/22 13:40	
Client Sample ID: FS26 Date Collected: 04/28/22 14:00							Lab Sam	ple ID: 890-2	
ate Received: 04/28/22 16:18								Watri	x: Soli
ample Depth: 3									
Method: 8021B - Volatile Organio	c Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		05/09/22 11:44	05/10/22 17:00	
Toluene	<0.00198	U	0.00198		mg/Kg		05/09/22 11:44	05/10/22 17:00	

4-Bromofluorobenzene (Surr)	136	S1+	70 - 130		05/09/22 11:44	05/10/22 17:00	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	05/09/22 11:44	05/10/22 17:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/09/22 11:44	05/10/22 17:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	05/09/22 11:44	05/10/22 17:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/09/22 11:44	05/10/22 17:00	1
Toluene	<0.00198	U	0.00198	mg/Kg	05/09/22 11:44	05/10/22 17:00	1
Denzene	<0.00196	0	0.00196	mg/Kg	05/09/22 11:44	05/10/22 17:00	1

Client Sample Results

Limits

70 - 130

RL

RL

RL

50.0

50.0

50.0

RL

4.95

Limits

70 - 130

70 - 130

50.0

0.00396

MDL Unit

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: Total BTEX - Total BTEX Calculation

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

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

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

%Recovery

89

<0.00396 U

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

106

107

82.3

Result Qualifier

Qualifier

%Recovery

Qualifier

Client Sample ID: FS26

Date Collected: 04/28/22 14:00 Date Received: 04/28/22 16:18

Sample Depth: 3

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Job ID: 890-2261-2 SDG: 03A1987005

Lab Sample ID: 890-2261-14

Analyzed

05/10/22 17:00

Analyzed

05/10/22 19:13

Analyzed

05/02/22 21:57

Analyzed

05/02/22 18:01

05/02/22 18:01

05/02/22 18:01

Analyzed

05/02/22 18:01

05/02/22 18:01

Analyzed

05/05/22 13:46

Prepared

05/09/22 11:44

Prepared

Prepared

Prepared

05/02/22 08:30

05/02/22 08:30

05/02/22 08:30

Prepared

05/02/22 08:30

05/02/22 08:30

Prepared

D

D

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

Job ID: 890-2261-2 SDG: 03A1987005

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-14234-A-5-C MS	Matrix Spike	127	92	
880-14234-A-5-D MSD	Matrix Spike Duplicate	124	93	
890-2261-13	FS25	130	87	
890-2261-14	FS26	136 S1+	89	
LCS 880-25085/1-A	Lab Control Sample	117	91	
LCSD 880-25085/2-A	Lab Control Sample Dup	121	95	
MB 880-25085/5-A	Method Blank	86	78	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
261-13	FS25	110	112	
261-14	FS26	106	107	
261-A-1-F MS	Matrix Spike	102	91	
61-A-1-G MSD	Matrix Spike Duplicate	100	90	
)-24605/2-A	Lab Control Sample	104	96	
880-24605/3-A	Lab Control Sample Dup	99	93	
880-24605/1-A	Method Blank	93	94	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25085/	5-A						Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	otal/NA
Analysis Batch: 25223								Prep Batch	n: 25085
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:44	05/10/22 14:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:44	05/10/22 14:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:44	05/10/22 14:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 11:44	05/10/22 14:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:44	05/10/22 14:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 11:44	05/10/22 14:03	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				05/09/22 11:44	05/10/22 14:03	1
1,4-Difluorobenzene (Surr)	78		70 - 130				05/09/22 11:44	05/10/22 14:03	1
Lab Sample ID: LCS 880-25085 Matrix: Solid Analysis Batch: 25223	/ 1-A					C	lient Sample I	D: Lab Control Prep Type: 1 Prep Batch	otal/NA

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 111 Benzene 0.100 0.1106 mg/Kg 70 - 130 Toluene 0.100 0.1079 mg/Kg 108 70 - 130 0.100 0.1173 Ethylbenzene mg/Kg 117 70 - 130 m-Xylene & p-Xylene 0.200 0.2409 120 70 - 130 mg/Kg 0.100 0.1158 116 70 - 130 o-Xylene mg/Kg

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-25085/2-A

Matrix: Solid

Analysis Batch: 25223							Prep	Batch:	25085
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1100		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.1068		mg/Kg		107	70 - 130	1	35
Ethylbenzene	0.100	0.1202		mg/Kg		120	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2426		mg/Kg		121	70 - 130	1	35
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-14234-A-5-C MS

Matrix: Solid

Analysis Batch: 25223									Prep Batch: 25085
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.0996	0.09251		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.0996	0.09500		mg/Kg		95	70 - 130

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

5

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.1036

0.2125

0.1063

Spike

Added

0.0996

0.199

0.0996

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: 880-14234-A-5-C MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 25223

Sample Sample

<0.00200

<0.00401

%Recovery

<0.00200 U

127

92

93

Result Qualifier

U

U

MS MS

Qualifier

Prep Type: Total/NA

Prep Batch: 25085

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

104

107

107

D

7

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

Matrix: Solid Analysis Batch: 25223

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-14234-A-5-D MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 25223									Prep	Batch:	25085
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00200	U	0.0994	0.08813		mg/Kg		89	70 - 130	5	35
Toluene	<0.00200	U	0.0994	0.08995		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0994	0.09674		mg/Kg		97	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1987		mg/Kg		100	70 - 130	7	35
o-Xylene	<0.00200	U	0.0994	0.1001		mg/Kg		101	70 - 130	6	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	124		70 _ 130								

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

Lab Sample ID: MB 880-24605/1-/ Matrix: Solid Analysis Batch: 24615	A						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/02/22 08:30	05/02/22 11:06	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/02/22 08:30	05/02/22 11:06	1
o-Terphenyl	94		70 - 130				05/02/22 08:30	05/02/22 11:06	1

Lab Sample ID: LCS 880-24605/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 24615 Prep Batch: 24605 LCS LCS Spike %Rec Added Qualifier Analyte Result Unit D %Rec Limits 1000 108 1078 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 895.7 mg/Kg 90 70 - 130

Eurofins Carlsbad

Page 223 of 314

C10-C28)

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: LCS 880-246	605/2-A						Client	t Sample	ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep 1	Type: To	tal/N/
Analysis Batch: 24615									Prep	Batch:	2460
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	96		70 - 130								
-											
Lab Sample ID: LCSD 880-24	4605/3-A					Clier	nt San	ple ID: I	Lab Contro		
Matrix: Solid										Type: To	
Analysis Batch: 24615										Batch:	
			Spike		LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1013		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	840.3		mg/Kg		84	70 - 130	6	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	93		70 - 130								
Analysis Batch: 24615	-	Sample	Spike Added		MS Qualifier	Unit	D	% Poc	Prep %Rec Limits	Batch:	2460:
Analyte		Qualifier						%Rec			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	1411	FI	mg/Kg		141	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1028		mg/Kg		103	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: 890-2261-A-	1-G MSD					Cli	ent S	amnle IF): Matrix Sp	nike Dur	olicate
Matrix: Solid										Type: To	
Analysis Batch: 24615										Batch:	
,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0		998	1401		mg/Kg		140	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1000		mg/Kg		100	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
Surrogate 1-Chlorooctane	% Recovery 100	Qualifier	Limits 70 - 130								

90

o-Terphenyl

70 _ 130

QC Sample Results

Job ID: 890-2261-2 SDG: 03A1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24652/1-A												Client S	ample ID		
Matrix: Solid													Pre	p Type: S	Soluble
Analysis Batch: 24754															
		MB M													
Analyte		esult Q	••••		RL		MDL			D	P	repared	Anal		Dil Fac
Chloride	<	:5.00 U	J		5.00			mg/Kg					05/04/2	2 15:29	1
Lab Sample ID: LCS 880-24652/2-A	L									Clie	ent	Sample	ID: Lab	Control S	Sample
Matrix: Solid													Pre	p Type: S	Soluble
Analysis Batch: 24754															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride				250		272.5			mg/Kg			109	90 - 110		
Lab Sample ID: LCSD 880-24652/3-	A								Cli	ent S	am	ple ID: I	_ab Cont	rol Samp	le Dup
Matrix: Solid														p Type: \$	
Analysis Batch: 24754															
				Spike		LCSD	LCSI	C					%Rec		RPD
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		253.2			mg/Kg			101	90 - 110	7	20
Lab Sample ID: 890-2256-A-6-B MS	•											Client	Sample I	D: Matrix	c Spike
Matrix: Solid													Pre	p Type: S	Soluble
Analysis Batch: 24754															
	Sample	Sample	e	Spike		MS	MS						%Rec		
Analyte	Result	Qualifi	er	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride	606	F1		250		816.9	F1		mg/Kg			85	90 - 110		
Lab Sample ID: 890-2256-A-6-C MS	D									Client	Sa	mple ID	: Matrix S	Spike Du	plicate
Matrix: Solid														p Type: \$	-
Analysis Batch: 24754															
-	Sample	Sample	e	Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qualifi	er	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limit
Analyte	Result											/			

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

5

Job ID: 890-2261-2 SDG: 03A1987005

GC VOA

Prep Batch: 25085

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2261-13	FS25	Total/NA	Solid	5035	
890-2261-14	FS26	Total/NA	Solid	5035	
MB 880-25085/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25085/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25085/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14234-A-5-C MS	Matrix Spike	Total/NA	Solid	5035	
880-14234-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25223

860-14234-A-5-D MSD	Matrix Spike Duplicate	TOtal/INA	5010	5035		
Analysis Batch: 25223						ð
Lab Sample ID 890-2261-13	Client Sample ID	Prep Type Total/NA	Matrix Solid	<u>Method</u>	Prep Batch 25085	9
890-2261-14	FS26	Total/NA	Solid	8021B	25085	
MB 880-25085/5-A	Method Blank	Total/NA	Solid	8021B	25085	
LCS 880-25085/1-A	Lab Control Sample	Total/NA	Solid	8021B	25085	
LCSD 880-25085/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25085	
880-14234-A-5-C MS	Matrix Spike	Total/NA	Solid	8021B	25085	
880-14234-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25085	
Analysis Batch: 25294						13

Analysis Batch: 25294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-13	FS25	Total/NA	Solid	Total BTEX	
890-2261-14	FS26	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-13	FS25	Total/NA	Solid	8015NM Prep	
890-2261-14	FS26	Total/NA	Solid	8015NM Prep	
MB 880-24605/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24605/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2261-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2261-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-13	FS25	Total/NA	Solid	8015B NM	24605
890-2261-14	FS26	Total/NA	Solid	8015B NM	24605
MB 880-24605/1-A	Method Blank	Total/NA	Solid	8015B NM	24605
LCS 880-24605/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24605
LCSD 880-24605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24605
890-2261-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	24605
890-2261-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24605

Analysis Batch: 24696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2261-13	FS25	Total/NA	Solid	8015 NM	
890-2261-14	FS26	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Job ID: 890-2261-2 SDG: 03A1987005

HPLC/IC

Leach Batch: 24652

890-2261-13FS25SolubleSolidDI Leach890-2261-14FS26SolubleSolidDI LeachMB 880-24652/1-AMethod BlankSolubleSolidDI LeachLCS 880-24652/2-ALab Control SampleSolubleSolidDI LeachLCSD 880-24652/3-ALab Control Sample DupSolubleSolidDI Leach890-2256-A-6-B MSMatrix SpikeSolubleSolidDI Leach	each Batch: 24652					
890-2261-14FS26SolubleSolidDI LeachMB 880-24652/1-AMethod BlankSolubleSolidDI LeachLCS 880-24652/2-ALab Control SampleSolubleSolidDI LeachLCSD 880-24652/3-ALab Control Sample DupSolubleSolidDI Leach890-2256-A-6-B MSMatrix SpikeSolubleSolidDI Leach	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24652/1-AMethod BlankSolubleSolidDI LeachLCS 880-24652/2-ALab Control SampleSolubleSolidDI LeachLCSD 880-24652/3-ALab Control Sample DupSolubleSolubleDI LeachB80-2256-A-6-B MSMatrix SpikeSolubleSolubleDI Leach	890-2261-13	FS25	Soluble	Solid	DI Leach	
LCS 880-24652/2-ALab Control SampleSolubleSolidDI LeachLCSD 880-24652/3-ALab Control Sample DupSolubleSolidDI Leach890-2256-A-6-B MSMatrix SpikeSolubleSolidDI Leach	890-2261-14	FS26	Soluble	Solid	DI Leach	
LCSD 880-24652/3-ALab Control Sample DupSolubleSolidDI Leach890-2256-A-6-B MSMatrix SpikeSolubleSolidDI Leach	MB 880-24652/1-A	Method Blank	Soluble	Solid	DI Leach	
890-2256-A-6-B MS Matrix Spike Soluble Solid DI Leach	LCS 880-24652/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
	LCSD 880-24652/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
200.2256 A.C.C.MCD Matrix Spile Duplicate Soluble Solid Dill coch	890-2256-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
ogu-2230-A-o-o Misuri viatrix spike Duplicate Soluble Solid Di Leach	890-2256-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 24754

890-2256-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Analysis Batch: 24754						8
Lab Sample ID 890-2261-13	Client Sample ID FS25	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 24652	9
890-2261-14	FS26	Soluble	Solid	300.0	24652	
MB 880-24652/1-A	Method Blank	Soluble	Solid	300.0	24652	
LCS 880-24652/2-A	Lab Control Sample	Soluble	Solid	300.0	24652	
LCSD 880-24652/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24652	
890-2256-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	24652	
890-2256-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24652	
						13

Job ID: 890-2261-2 SDG: 03A1987005

Lab Sample ID: 890-2261-13 Matrix: Solid

Lab Sample ID: 890-2261-14

Matrix: Solid

Date Collected: 04/28/22 12:00 Date Received: 04/28/22 16:18

Client Sample ID: FS25

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25085	05/09/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			25223	05/10/22 16:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25294	05/10/22 19:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24696	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24652	05/02/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/05/22 13:40	СН	XEN MID

Client Sample ID: FS26

Date Collected: 04/28/22 14:00

Date Received: 04/28/22 16:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25085	05/09/22 11:44	MR	XEN MID
Total/NA	Analysis	8021B		1			25223	05/10/22 17:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25294	05/10/22 19:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24696	05/02/22 21:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24605	05/02/22 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24615	05/02/22 18:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24652	05/02/22 11:51	SC	XEN MID
Soluble	Analysis	300.0		1			24754	05/05/22 13:46	СН	XEN MID

Laboratory References:

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

		Accreditation/Co	ertification Summary		
Client: Ensolum Project/Site: North Brus	shy Draw 35-2H			Job ID: 890-2261-2 SDG: 03A1987005	2
Laboratory: Eurofi		/ were covered under each acci	aditation/agrification balance		
			Identification Number	Evelotion Data	
Authority Texas		Program NELAP	T104704400-21-22	Expiration Date 06-30-22	
					5
the agency does not off	fer certification.	· ·	ed by the governing authority. This list ma	ay include analytes for which	6
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
IOIAIDIEX		Solid			
					8
					9
					10
					10
					13

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2261-2 SDG: 03A1987005

lethod	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
800.0	Anions, Ion Chromatography	MCAWW	XEN MID
6035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2261-2 SDG: 03A1987005

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2261-13	FS25	Solid	04/28/22 12:00	04/28/22 16:18	1
890-2261-14	FS26	Solid	04/28/22 14:00	04/28/22 16:18	3

Released to Imaging: 5/23/2023 8:29:46 AM

Anto Total Total Total Total (1) (1) (1) (1) (1) (1) (1) (1)	Neuron Ready and and sets one of the set of the	www.xenco.com Page of A Work Order Comments work Order Comments superfulsion ustripert brownfields RRC superfulsion ustripert brownfields RRC superfulsion ustripert brownfields RRC superfulsion ustripert brownfields RRC superfulsion es: EDD Dapt other: es: EDD None: NO DI Water: es: EDD None: NO DI Water: es: EDD Acetate+NaOH: Na HCL: HC NaHSO 4; H2 NaHSO 4; NABIS NaOH: Na NaHSO 4; NABIS NaOH: Na NaOH: Na NaHSO 5; NaSO 5 Zn Acetate+NaOH: Sample Comments NaOH: Na Na NaOH: Ascorbic Acid: SAPC Sample Comments Na NaOA: NASO 5 NACM 2014/14/779 Na Na Na Na Na </th <th></th> <th>nviron</th> <th>Environment Testing</th> <th>ting</th> <th>Midlar</th> <th>rd, TX (432)</th> <th>Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334</th> <th>idiand, TX (432) 704-5440, San Antonio, TX (210) 509-33</th> <th>509-3334</th> <th>Work</th> <th>Work Order No:</th> <th></th>		nviron	Environment Testing	ting	Midlar	rd, TX (432)	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	idiand, TX (432) 704-5440, San Antonio, TX (210) 509-33	509-3334	Work	Work Order No:	
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Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	EL Paso. TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	JIM RALEY	wPX Program:	5315 BUBUA VISTA DR. State of	CARLER NV 88220 Reporti	Ensouver, com Deliverables:	ANALYSIS REQUEST		((i	28:	44	3). 3 H	30	100)x(-41) (1)5) (4)15)		Ŕ			~		s Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 16317	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco, will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such bases are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of 885.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negolisted	Date/Time Relinquished by: (Signature)	\$ IN C
Chain of (Houston, TX (281) 240-4200, Midland, TX (432) 704-5440, 5ar	EL Paso, TX (915) 585- Hobbs, NM (575) 392-	Bill to: (if different)			: ZIP:	ABYERS QEA	Turn Around	BRush 24/14 Pres.		TAT starts the day received by	6L2			Md =		Depth Grab/ # of # of Comp Cont	-	3-14 C 1 /				Se la	13PPM Texas 11 AI Sb As Ba Be B TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C	er from client company to Eurofins Xenc nsibility for any losses or expenses incur 'or each sample submitted to Eurofins X	() Date	CC. SC.H
Environment Testing	Xenco			Tudy shares should be	02288 MN CH8	200- CASY Email:	North Beusty Den 35-24 Turn	Rout	COUNTY, UN Due Date:	LORENO		Temp Blank: Yes No Wet Ice:	Yes No N/A Correction Factor: .	Yes No N/A Temperature Reading:	Corrected Temperature:	Matrix Date Time Sampled	201:35	4-28-22 09:40		< 4-28-22 12:00	4-29-22		200.8 / 6020: 8RCRA 13PPM Texas 11 tal(s) to be analyzed TCLP / SPLP 6010 : 8R	quishment of samples constitutes a valid purchase orde for the cost of samples and shall not assume any respor 5.00 will be applied to each project and a charge of 55 fo	c) Received by: (Signature)	Ular lingo
🐝 eurofins		Project Manager: ANUL BYERS		3122	e ZIP: Caper	545	Project Name: North	er:		er's Name:	_	+	Samples Received Intact: Cooler Custody Seals: Yes		Total Containers:	Sample Identification	823	RZ		102	R 210		Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Notice: Signature of this document and relin of service. Eurofins Xenco will be llable only of Eurofins Xenco. A minimum charge of 58:	Relinquished by: (Signature)	encha) :

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5/10/2022

Released to Imaging: 5/23/2023 8:29:46 AM

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3-3199	NM 88220	, t	Eurofins Carlsbad	
Fax 57			ād	5
Phone 575-988-3199 Fax 575-988-3199				
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Chain of Custody Record

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Seurofins Environment Testing

Phone 575-988-3199 Fax 575-988-3199																					
Client Information (Sub Contract Lab)	vanipiei			Krame	Kramer, Jessica	SSICE	-						Came	ar I rao	Carrier Tracking No(s):	Vo(s):				COC No: 890-736 1	
Chient Contact: Shipping/Receiving	Phone [.]			E-Mail- Jessu	E-Mail [.] Jessica Kramer@et.eurofinsus com	amer	@et.	eurof	์เกรนร	8	2		State New	State of Origin. New Mexico	gin.					Page Page 1 of 1	
Company Eurofins Environment Testing South Centr					Accreditations Required (See note) NELAP - Texas	itation: P - T	s Requ	Jired (See n	ote)										Job # [.] 890-2261-2	
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City Midland	TAT Requested (days):	ys):																	June		M Hexane N None
State, Zip: TX, 79701																			6989	Nitric Acid NaHSO4	Q Na2SO3
Phone [.] 432-704-5440(Tel)	PO#)		трн	e											e A	MeOH Amchlor	R Na2S2O3 S H2SO4
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Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratores. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed. the samples must be shipped back to the Eurofins Environment Testing South Central LLC alternation will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	Testing South Centra we for analysis/tests/ tral LLC attention im	al LLC places t matrix being ar mediately If al	he ownership on the same the s	of method anal mples must be creditations are	yte & ac shippec current	ccredit d back t to da	ation of the to the return	Sompli Eurof	ance i ins Er signe	upon Iviron 9d Ch	nent ain of	bcontr Festing Custo	act Ial J Sout dy atte	borato h Cen	ries tral L to sai	This s LC lat	ample vorato plican	ship ry or ice to	ment other Eurot	is forwarded under cha instructions will be prov fins Environment Testir	ain-of-custody If the vided. Any changes to rg South Central LLC.
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Custody Seals Intact. ∆ Yes ∆ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Ver 06/08/2021

Eurofins Carlsbad 1089 N Canal St.

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1089 N Canal St.	•	•	•	J		•														🤔 eurofins		
Carlsbad MM 88220 Phone: 575-988-3199 Fax: 575-988-3199	C	Chain of Custody Record	t Cust	ody Re	i co	a													\$		An	Environment Testing America
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	L ^{ab PM} Kramer, Jessica	sica						Carrie	Carrier Tracking No(s)	sking	No(s)				80 8	cóc № 890-736 1		
Client Contact: Shipping/Receiving	Phone:			E-Mail Jessic	E-Mail Jessica Kramer@et.eurofinsus com	ner@	et.eur	ofinsu		3		State of Origin: New Mexico	State of Origin: New Mexico	gin:					Page: Page	Page: Page 1 of 2		
Company Eurofins Environment Testing South Centr				7 8	Accreditations Required (See note): NELAP - Texas	- Tex	lequirec (as	l (See	note):										Job #.	Job #. 890-2261-1		
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City: Midland	TAT Requested (days):	ys):		Long and the	52													wynos Ar dia	ດໝັ>	HCL NaOH Zn Acetate	ozz ∠	Hexane None AsNaCO
State Zp: TX, 79701				ao: 389	2																ουα	Q Na2SO3
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Project Name North Brushv Draw 35-2H	Project # R9nnnnR4																	ainen	Г х	EDTA EDA	N≶	pH 4-5 other (specify)
Site	SSOW#:								v									of cont	Other-	ler.		
			Sample Type		Tiltered m MS/N	OD_Calc	DD_NM/8	5036FP_	STEX_GO									Number				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	S è	S=solid, O=waste/oil, BT=Tissue, A=Air)					Total_									Total		Special In	stru	Special Instructions/Note:
	X	X	Preservation Code:	on Code:	\mathbb{X}		in in its second	alaan i		10000	and the				1	10000		X				
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SW06 (890-2261-2)	4/28/22	09 05 Mountain		Solid		×	××	×	×									-	4.66U			
SW07 (890-2261-3)	4/28/22	09 15 Mountain		Solid		×	××	×	×									4	<u>8. 60 . 1</u>			
SW08 (890-2261-4)	4/28/22	09 20 Mountain		Solid		×	××	×	×										<u>the Soldward</u>			
SW09 (890-2261-5)	4/28/22	09 25 Mountain		Solid		×	× ×	×	×													
SW10 (890-2261-8)	4/28/22	09 30 Mountain		Solid		×	X X	×	×										latina di ti			
SW11 (890-2261-7)	4/28/22	09 45 Mountain		Solid		×	××	×	×									4	in the second state of the			
SW12 (890-2261-8)	4/28/22	09 50 Mountain		Solid		×	××	×	×									(# 1)	a son dita			
SW13 (890-2261-9)	4/28/22	09 55 Mountain		Solid		×	××	×	×										transferd			
Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided Any changes accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately.	: Testing South Centra ove for analysis/tests/ ntral LLC attention im	al LLC places th matrix being ana mediately If all	e ownership o alyzed, the san requested acc	f method analy pples must be s reditations are o	ie & acc hipped b urrent t	reditatio back to o date	on com the Eu	pliance ofins E he sign	e upon Enviror ned Ch	out su ment	bcontr Festing Custo	act la J Sout dy atte	boratc h Cer sting	ries Itral L	This : LC la	sampl borat	le ship ory or nce to	othe	t is fo r instr ofins	nwarded under ch ructions will be pr Environment Test	hain-o rovideo ting S	on out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the ronment Testing South Central LLC laboratory or other instructions will be provided. Any changes to Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.
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Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Cooler Temperature(s) °C	Tempe	rature(s) °C a	and Other Remarks	her Re	marks			Ī						ŀ	

Ver 06/08/2021

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1089 N Canal St. **Eurofins Carlsbad** 5

Chain of Custody Record

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1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199	•	Chain of Custody Record	of Cust	tody R	eco	đ												ير	🤹 culonns	A E	Environment Testing America
Client Information (Sub Contract Lab)	Sampler [.]			Lab PM Krame	_{Lab PM} Kramer Jessica	sica						Can	Carrier Tracking No(s)	Icking	No(s)				COC No [.] 890-736 2		
Chient Contact Shipping/Receiving	Phone:			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus com	mer@)et.eu	Irofins	sus c	m		Ne	State of Origin New Mexico	Xico Xico					Page [.] Page 2 of 2		
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	o - Te	Require	ed (Se	e note	~									Job # [.] 890-2261-1		
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Email.	WO #							Chlorid											lce DI Water	< c -	Acetone MCAA
Project Name: North Brushy Draw 35-2H	Project #: 89000084						_		=X									ainer		N₹	pH 4-5 other (specify)
Site	SSOW#:																	of con	Other [.]		
			Sample	Matrix	iltered S n MS/M	D_Calc	D_NM/8	GFM_28	036FP_C									umber			
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SW14 (890-2261-10)	4/28/22	10 00 Mountain		Solid		×	×	×	××									4			
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FS24 (890-2261-12)	4/28/22	09 40 Mountain		Solid		×	×	×	××	<u> </u>											
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Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.	nt Testing South Centr pove for analysis/tests intral, LLC attention in	ral LLC places t s/matrix being an nmediately If a	the ownership on halyzed the sau Il requested aco	of method, anal mples must be creditations are	yte & ac shipped current	credita back to to date	the E	mplian urofins h the si	ce upo Envir Igned	in out : onmen Chain e	subcor nt Testi of Cus	ntract I ng Sou lody at	aborat uth Ce	ories ntral j to sa	This : LC la	sampli borato	e ship pry or nce to	ment other Euro	is forwarded under c instructions will be p ins Environment Tes	chain-c provide sting S	of-custody If the id. Any changes to south Central LLC.
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Ver 06/08/2021

Cooler Temperature(s) °C and Other Remarks.

Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2261 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 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 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 True HTs) 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 True MS/MSDs

N/A

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

14

Job Number: 890-2261-2 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Job Number: 890-2261-2 SDG Number: 03A1987005

List Source: Eurofins Midland

List Creation: 05/02/22 08:06 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2261 List Number: 2 Creator: Teel, Brianna

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

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

Received by OCD: 1/25/2023 12:00:26 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2263-1

Laboratory Sample Delivery Group: 03a1987005 Client Project/Site: North Brushy Draw 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/9/2022 8:58:02 AM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

<section-header><text><text><text><text><text>

Laboratory Job ID: 890-2263-1 SDG: 03a1987005

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
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Definitions/Glossary

Client: Ensolum
Project/Site: North Brushy Draw 35-2H

Job ID: 890-2263-1 SDG: 03a1987005

1 10,000 0110. 110		
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
a a a a a a a a a a a a a a a a a a a	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points Toxicity Equivalent Factor (Dioxin)	
TEF TEQ TNTC	Toxicity Equivalent Quotient (Dioxin) Too Numerous To Count	

4

Job ID: 890-2263-1 SDG: 03a1987005

Job ID: 890-2263-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2263-1

Receipt

The samples were received on 4/29/2022 3:34 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 1.1°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24319 and analytical batch 880-24740 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24742 and analytical batch 880-24769 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW15 (890-2263-1) and SW16 (890-2263-2). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Job ID: 890-2263-1 SDG: 03a1987005

Client Sample ID: SW15

Date Collected: 04/29/22 10:30 Date Received: 04/29/22 15:34

Sample Depth: 0 - 3

Client: Ensolum

Lab Sample ID: 890-2263-1

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/22 14:30	05/04/22 01:09	
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/22 14:30	05/04/22 01:09	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/22 14:30	05/04/22 01:09	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/03/22 14:30	05/04/22 01:09	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/22 14:30	05/04/22 01:09	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/03/22 14:30	05/04/22 01:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				05/03/22 14:30	05/04/22 01:09	
1,4-Difluorobenzene (Surr)	100		70 - 130				05/03/22 14:30	05/04/22 01:09	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/04/22 12:23	1
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/05/22 12:45	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 17:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				05/03/22 14:16	05/04/22 17:31	1
o-Terphenyl	52	S1-	70 - 130				05/03/22 14:16	05/04/22 17:31	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		4.97		mg/Kg			05/06/22 17:03	1
lient Sample ID: SW16							Lab San	nple ID: 890-	2263-2
- ate Collected: 04/29/22 11:00								-	x: Solid
ate Received: 04/29/22 15:34									
ample Depth: 0 - 3									
Method: 8021B - Volatile Organic	: Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/22 14:30	05/04/22 01:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/22 14:30	05/04/22 01:30	1
	-0.00000		0.00000		5° 5		05/00/00 44:00	05/04/00 04:00	

Surrogate 4-Bromofluorobenzene (Surr)	% Recovery 109	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/03/22 14:30	05/04/22 01:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/03/22 14:30	05/04/22 01:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/03/22 14:30	05/04/22 01:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/03/22 14:30	05/04/22 01:30	1
Toluene	<0.00200	U	0.00200	mg/Kg	05/03/22 14:30	05/04/22 01:30	1

Client Sample Results

Job ID: 890-2263-1 SDG: 03a1987005

Client Sample ID: SW16

Date Collected: 04/29/22 11:00 Date Received: 04/29/22 15:34

Sample Depth: 0 - 3

Client: Ensolum

Method: 8021B - Volatile Org	ganic Compounds	(GC)	(Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130				05/03/22 14:30	05/04/22 01:30	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/04/22 12:23	1
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/05/22 12:45	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 17:52	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 17:52	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	40	S1-	70 - 130				05/03/22 14:16	05/04/22 17:52	1
o-Terphenyl	38	S1-	70 - 130				05/03/22 14:16	05/04/22 17:52	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.98		mg/Kg			05/06/22 17:11	

Lab Sample ID: 890-2263-2

Matrix: Solid

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

Percent Surrogate Recovery (Acceptance Limits) DFBZ1 BFB1 Lab Sample ID Client Sample ID (70-130) (70-130) 880-14276-A-11-C MS Matrix Spike 112 99 880-14276-A-11-D MSD Matrix Spike Duplicate 106 101 890-2263-1 SW15 106 100 SW16 890-2263-2 109 103 LCS 880-24319/1-A Lab Control Sample 101 101 Lab Control Sample Dup LCSD 880-24319/2-A 104 101 MB 880-24319/5-A Method Blank 98 96 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
mple ID	Client Sample ID	(70-130)	(70-130)	
4-A-1-E MS	Matrix Spike	33 S1-	29 S1-	
234-A-1-F MSD	Matrix Spike Duplicate	43 S1-	34 S1-	
63-1	SW15	52 S1-	52 S1-	
63-2	SW16	40 S1-	38 S1-	
)-24742/2-A	Lab Control Sample	105	104	
880-24742/3-A	Lab Control Sample Dup	113	110	
80-24742/1-A	Method Blank	86	97	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2263-1 SDG: 03a1987005

Prep Type: Total/NA

Prep Type: Total/NA

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Lab Sample ID: MB 880-24319/5-A

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 24740								Prep Type: 1 Prep Batch	
-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/27/22 11:49	05/03/22 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/27/22 11:49	05/03/22 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/27/22 11:49	05/03/22 17:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/27/22 11:49	05/03/22 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/27/22 11:49	05/03/22 17:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/27/22 11:49	05/03/22 17:02	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/27/22 11:49	05/03/22 17:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130				04/27/22 11:49	05/03/22 17:02	1

Lab Sample ID: LCS 880-24319/1-A Matrix: Solid

Analysis Batch: 24740

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08370		mg/Kg		84	70 - 130	
Toluene	0.100	0.08340		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08448		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1757		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.09531		mg/Kg		95	70 - 130	

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

Lab Sample ID: LCSD 880-24319/2-A

Matrix: Solid

Analysis Batch: 24740							Prep	Batch:	24319
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09599		mg/Kg		96	70 - 130	14	35
Toluene	0.100	0.09590		mg/Kg		96	70 - 130	14	35
Ethylbenzene	0.100	0.09740		mg/Kg		97	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2020		mg/Kg		101	70 - 130	14	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	14	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-14276-A-11-C MS

Matrix: Solid Analysis Potoby 24740

Analysis Batch: 24740									Prep	Batch: 24319
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.07957		mg/Kg		80	70 - 130	
Toluene	<0.00201	U	0.0996	0.08446		mg/Kg		85	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Batch: 24319

Prep Type: Total/NA

MS MS

0.08536

0.1786

0.09618

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: 880-14276-A-11-C MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 24740

Sample Sample

<0.00201

<0.00402 U

<0.00201 U

112

99

101

97

%Recovery

Result Qualifier

U

MS MS

Qualifier

Prep Type: Total/NA

Prep Batch: 24319

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

86

90

97

D

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

Client Sample ID: Method Blank

05/04/22 10:58

Client Sample ID: Lab Control Sample

05/03/22 14:16

Prep Type: Total/NA

Prep Batch: 24742

Matrix: Solid Analysis Batch: 24740

Lab Sample ID: 880-14276-A-11-D MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 24740									Prep	Batch:	24319	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0994	0.07637		mg/Kg		77	70 - 130	4	35	
Toluene	<0.00201	U	0.0994	0.07520		mg/Kg		76	70 - 130	12	35	ī
Ethylbenzene	<0.00201	U	0.0994	0.07637		mg/Kg		77	70 - 130	11	35	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1593		mg/Kg		80	70 - 130	11	35	ĩ
o-Xylene	<0.00201	U	0.0994	0.08674		mg/Kg		87	70 - 130	10	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	106		70 - 130									

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

Lab Sample ID: MB 880-24742/1-A Matrix: Solid Analysis Batch: 24769

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 10:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 10:58	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				05/03/22 14:16	05/04/22 10:58	1

70 - 130

-
Lab Sample ID: LCS 880-24742/2-A
Matrix: Solid

Analysis Batch: 24769

o-Terphenyl

Analysis Batch: 24769							Prep	Batch: 24742
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	935.0		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	967.7		mg/Kg		97	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: LCS 880-24	742/2-A						Client	t Sample	D: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 24769									Prep	Batch:	24742
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	104		70 - 130								
Lab Sample ID: LCSD 880-2	24742/3-A					Clier	nt San	nple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 24769									Prep	Batch:	24742
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1022		mg/Kg		102	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104	70 - 130	7	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	110		70 - 130								
Analysis Batch: 24769	•	Sample	Spike		MS	11-14		0/ D	%Rec	Batch:	24142
Analyte	Result <50.0		Added	331.2	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	UFI	1000	331.2	FI	mg/Kg		33	70 - 130		
Diesel Range Organics (Over	<50.0	U F1 F2	1000	292.2	F1	mg/Kg		28	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1-	70 - 130								
o-Terphenyl		S1-	70 - 130								
Lab Sample ID: 880-14234-4	A-1-F MSD					CI	ient Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 24769									Prep	Batch:	24742
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	374.5		mg/Kg		38	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	998	363.9	F1 F2	mg/Kg		35	70 - 130	22	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1-	70 - 130								
I-Chilorooclarie	10	01									

QC Sample Results

Job ID: 890-2263-1 SDG: 03a1987005

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24812/1-A											С	lient S	ample ID:	Method	Blank
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 24863															
		MB I	МВ												
Analyte			Qualifier		RL		MDL	Unit		D	Prep	pared	Analy	zed	Dil Fac
Chloride	<	<5.00 l	U		5.00			mg/Kg	1				05/05/22	2 18:59	1
 Lab Sample ID: LCS 880-24812/2-A										Clie	nt S	ample	ID: Lab C	ontrol S	ample
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 24863															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		<u> </u>	%Rec	Limits		
Chloride				250		261.5			mg/Kg			105	90 - 110		
Lab Sample ID: LCSD 880-24812/3-	A								Cli	ent Sa	amp	le ID: I	_ab Contr	ol Samp	le Dup
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 24863															
				Spike		LCSD	LCSI	C					%Rec		RPD
Analyte				Added		Result	Qual	ifier	Unit		2	%Rec	Limits	RPD	Limit
Chloride				250		251.5			mg/Kg			101	90 - 110	4	20
Lab Sample ID: 880-14390-A-4-B M	s											Client	Sample ID	D: Matrix	Spike
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 24863															
	Sample	Samp	le	Spike		MS	MS						%Rec		
Analyte	Result	Qualif	fier	Added		Result	Qual	ifier	Unit		<u> </u>	%Rec	Limits		
Chloride	543			250		778.4			mg/Kg			94	90 - 110		
- Lab Sample ID: 880-14390-A-4-C M	SD									Client	Sam	nple ID	: Matrix S	pike Du	plicate
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 24863															
	Sample	Samp	le	Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qualif	fier	Added		Result	Qual	ifier	Unit	0	5	%Rec	Limits	RPD	Limit
Chloride	543	-		250		784.9	_					97	90 - 110	1	20

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

5

Job ID: 890-2263-1 SDG: 03a1987005

GC VOA

Prep Batch: 24319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2263-1	SW15	Total/NA	Solid	5035	
890-2263-2	SW16	Total/NA	Solid	5035	
MB 880-24319/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24319/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24319/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14276-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-14276-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24740

000-14270-A-11-D WIGD	Matin Spike Dupicate	Total/NA	Solid	5055		0
Analysis Batch: 24740						Ō
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
890-2263-1	SW15	Total/NA	Solid	8021B	24319	
890-2263-2	SW16	Total/NA	Solid	8021B	24319	
MB 880-24319/5-A	Method Blank	Total/NA	Solid	8021B	24319	
LCS 880-24319/1-A	Lab Control Sample	Total/NA	Solid	8021B	24319	
LCSD 880-24319/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24319	
880-14276-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	24319	
880-14276-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	24319	
Analysis Batch: 24819						13

Analysis Batch: 24819

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2263-1	SW15	Total/NA	Solid	Total BTEX	
890-2263-2	SW16	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2263-1	SW15	Total/NA	Solid	8015NM Prep	
890-2263-2	SW16	Total/NA	Solid	8015NM Prep	
MB 880-24742/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24742/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14234-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14234-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2263-1	SW15	Total/NA	Solid	8015B NM	24742
890-2263-2	SW16	Total/NA	Solid	8015B NM	24742
MB 880-24742/1-A	Method Blank	Total/NA	Solid	8015B NM	24742
LCS 880-24742/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24742
LCSD 880-24742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24742
880-14234-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	24742
880-14234-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24742

Analysis Batch: 24892

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
890-2263-1	SW15	Total/NA	Solid	8015 NM	
890-2263-2	SW16	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Page 251 of 314

Job ID: 890-2263-1 SDG: 03a1987005

HPLC/IC

Leach Batch: 24812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2263-1	SW15	Soluble	Solid	DI Leach		
890-2263-2	SW16	Soluble	Solid	DI Leach		5
MB 880-24812/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-24812/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-24812/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
880-14390-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach		
880-14390-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		_
- Analysis Batch: 24863						8

Client Sample ID Lab Sample ID Prep Type Matrix Method Prep Batch 890-2263-1 SW15 300.0 Soluble Solid 24812 890-2263-2 SW16 Soluble Solid 300.0 24812 MB 880-24812/1-A Method Blank Soluble Solid 300.0 24812 LCS 880-24812/2-A Lab Control Sample Soluble Solid 300.0 24812 LCSD 880-24812/3-A Lab Control Sample Dup Soluble Solid 300.0 24812 24812 880-14390-A-4-B MS Matrix Spike Soluble Solid 300.0 880-14390-A-4-C MSD Soluble Solid 300.0 24812 Matrix Spike Duplicate

Job ID: 890-2263-1 SDG: 03a1987005

Lab Sample ID: 890-2263-1 Matrix: Solid

Lab Sample ID: 890-2263-2

Matrix: Solid

Date Collected: 04/29/22 10:30 Date Received: 04/29/22 15:34

Client Sample ID: SW15

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	24319	05/03/22 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/04/22 01:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24819	05/04/22 12:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24892	05/05/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24742	05/03/22 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24769	05/04/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24812	05/04/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			24863	05/06/22 17:03	SC	XEN MID

Client Sample ID: SW16

Date Collected: 04/29/22 11:00 Date Received: 04/29/22 15:34

Date Received: 04/29/22 15:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	24319	05/03/22 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24740	05/04/22 01:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24819	05/04/22 12:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24892	05/05/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24742	05/03/22 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24769	05/04/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24812	05/04/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			24863	05/06/22 17:11	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440
	_		·····,		
Client: Ensolum Project/Site: North Brus	shy Draw 35-2H			Job ID: 890-2263-1 SDG: 03a1987005	
	-				
Laboratory: Eurofi					
Unless otherwise noted, all a	analytes for this laboratory we	re covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number Expi	ration Date	
Texas	NE	ELAP	T104704400-21-22 06-3	0-22	E
The following analytes	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This list may include	e analytes for which	5
the agency does not of	fer certification.				
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
IOIAI BIEX		Solid			
					8
					9
					10
					13

Eurofins Carlsbad

.

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2263-1 SDG: 03a1987005

lethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
lotal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID
SW846 = '	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Ma "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	•	
Laboratory Re	eferences:		
XEN MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	0	

Laboratory References:

Eurofins Carlsbad

Released to Imaging: 5/23/2023 8:29:46 AM

Sample Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2263-1 SDG: 03a1987005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2263-1	SW15	Solid	04/29/22 10:30	04/29/22 15:34	0 - 3
890-2263-2	SW16	Solid	04/29/22 11:00	04/29/22 15:34	0 - 3

	Xenco	ICO		EL Paso Hobbs, 1	, TX (915) 585- 1M (575) 392-7	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	(806) 794-1296 (575) 988-3199		www.xenco.com Pa	Page of
Project Manager:	Anna Byers			Bill to: (if different)	Jim Raley				Work Order Comments	ents
	Ensolum			Company Name:	WPX			Program: UST/PS	Program: UST/PST PRP Brownfields RRC	RRC Superfund
	3122 National Parks HWY	arks HWY		Address:	5315 Bue	5315 Buena Vista Dr.		State of Project:]	
te ZIP:	Carlsbad, NM 88220	220		City, State ZIP:	Carlsbad	Carlsbad, NM 88220		Reporting: Level I	Reporting: Level II Level III PST/UST TRRP	
	575-200-6754		Email:	Abyers@Ensolum.com	n.com			Deliverables: EDD	ADaPT	Other:
Project Name:	North Brushv Draw 35-2H	Draw 35-2H	Turr	Turn Around			ANALYSIS REQUEST	QUEST		Preservative Codes
Project Number:	03A1987005	87005	Routine		Pres. Code				None: NO	NO DI Water: H ₂ O
Project Location:	Eddy County, NM	Inty, NM	Due Date:	5 day TAT					Cool: Cool	<u>v</u> .
Sampler's Name:	Gilbert Moreno	Moreno	TAT starts th	TAT starts the day received by				-	HCL: HC	
CC #	1061121501	21501	the lab, if re	ł	ers				H ₂ S0 ₄ : H ₂	H ₂ NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:	nk: Res No	Vet Ice:	No Sal	_				H ₃ PO ₄ : HP	t. HP
Samples Received Intact	H		ter	الح	300.				NaHS	NaHSO4: NABIS
Cooler Custody Seals:	Is: Yes No	NIA Correctio	Correction Factor:	L			890-2263 Chain		Na ₂ S ₂	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals	Yes	N/A Tempera	Temperature Reading:	1.3	S (E			Cusiody	Zn Ac	Zn Acetate+NaOH: Zn
Total Containers:			Corrected Temperature:					-	NaOt	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Sampled	Time Sampled	Depth Comp C	Cont of CHLOI TPH (8	BTEX				Sample Comments
SW15	15 S	4.29.22	10:30	0-3' Comp	-					
SW16	16 S	4.29.22	11:00	0-3' Comp	1 ×	×				Incident ID
		_								NRM2014147987
					A A	4.29	22			
				1200	1.					
		X								
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	010 200.8 / 6020: nd Metal(s) to be an	20: analvzed	BRCRA 13F	CRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA	6 A 1	Sb As Ba Be B Cd Ca Cr Co C Sb As Ba Be Cd Cr Co Cu Pb		Mg Mn Mo Ni Ni Se Ag TI U	K Se Ag SiO ₂ Na Sr TI Sn I Hg: 1631/245.1/7470	TI Sn U V Zn /7470 /7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and sub of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any respectively and any losses incurred by the client if su	document and relinquis	hment of samples the cost of sampl	es and shall not as	purchase order from cl sume any responsibility	ent company to for any losses of	der from client company to Eurofins Xenco, its a ponsibility for any losses or expenses incurred to for each earned submitted to Eurofins Xenco to		contractors. It assigns standard terms and conditions ich losses are due to circumstances beyond the control These terms will be enforced unless previously negotiated.	ms and conditions beyond the control previously negotiated.	
Relinquished by: (Signature) Received by: (Signature)	/: (Signature)	Rece	Received by: (Signature)		Date/Time	ne Rel	\leq		Received by: (Signature)	Date/Time
22 fred .	and !	NA	and in		4/29/2	3.3121				
3						4	_			

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

Eurofins Carlsbad 1089 N Canal St Carlsbad NM 88220

Chain of Custody Record

Eurotins Carisbad																		=		3		2						
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Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	- I	Jessica							Carri	er Tra	Carrier Tracking No(s)	No(s)				COC No 890-73	COC No 890-738 1	^						
Client Contact: Shipping/Receiving	Phone.			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus com	amer(@et.e	Burof	insus	ŝ	2		State	State of Origin New Mexico	(ico					Page. Page	Page. Page 1 of 1	-						
Company Eurofins Environment Testing South Centr					Accreditations Requ NELAP - Texas	preditations Required (See note)	: Requ	IIred (See n	ote):										Job #-	Job # [.] 890-2263-1	5						
Address 1211 W Florida Ave	Due Date Requested 5/5/2022	а							≥	Analy	lysis	Re	Requested	ited						Pres	Preservation Codes	ion	öde	5				
City Midland	TAT Requested (days)	vs)																	townshinds	0 00 Þ	HCL NaOH Zn Acetate	afe	o - -	>∠¤ ≥S∓	Hexane None AsNaO2			
State Zip [.] TX 79701					<u>ntis Reference</u> and a second second									******					ana dina dina dina dina dina dina dina d		Nitric Acid NaHSO4	4 cid	~ -	N N N	Na2O4S Na2SO3			
Phone: 432-704-5440(Tel)	PO #:				<u>)</u>		трн	de											an a	ר ח ח א א פ	MeOH Amchlor	2 2			Na2S20 H2SO4	ີ ພິ		
Email	WO #				Cit 6 201		p Full	Chlori											S. S.		J DI Water	in io			Acetone MCAA	Acetone	yulate	
Project Name North Brushy Draw 35-2H	Project #: 89000084				our without		_S_Pr	EACH	ΈX										taine		EDTA EDA		N	≥ × oth	pH 4-5 other (specify)	vecify)		
Site.	SSOW#-				conten soci-longest		015NM	3D/DI_L	Calc B	SV.									of cor	Other [.]	٦							
		-		Matrix (^{W=water} S=solid,	l Filtered orm MS/I	VIOD_Calc	NOD_NM/	ORGFM_2	3/5036FP_	BTEX_G									Number									
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) B	E	Costin//	801	801	300	802	Tot									Tot		Spa	ecial	Inst	ruct	ions	Special Instructions/Note:	<u>.</u> Ч	
	N	X	Preservation Code:	on Code:	X		a suches					7			al and a second				Х		1	1			$\ $	11		1000
SW15 (890-2263-1)	4/29/22	10 30 Mountain		Solid		×	×	Х	×	×													I					
SW16 (890-2263-2)	4/29/22	11 00 Mountain		Solid		×	×	×	×	×									*									
							<u> </u>																					
			 		<u> </u>							<u> </u>				Γ		1										
						1																						
		ar dooren																										
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin Isted above for analysis/testsmatrix being analyzed the samples must be shipped back to the Eurofine Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to laboratoriate the samples must be shipped back to the Eurofine Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to laboratoriate the samples must be shipped back to the Eurofine Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to laboratoriate the samples must be shipped back to the Eurofine Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to laboratoriate the samples must be shipped back to the Eurofine Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to laboratoriate the samples must be shipped back to the Eurofine Environment Testing South Central LLC laboratory or other instructions will be provided.	t Testing South Centra ove for analysis/tests/	al LLC places t matrix being an	he ownership c nalyzed the sar	of method, anal	yte & ac	back	ation c	Compli	ance Ins Er	upon	nent	Testin	g Sou	borat th Ce	ntral L	This	sampl	e ship	other	is for	vardec	1 unde will be	e prov	in-of-c	custoc Any c	iy Ift	he	
Possible Hazard Identification					Sa	Sample Disposal (A fee	Dis	posa	I (A	fee	may	be	Isse	ssed	if se	npl	es a	l'ere	tain	ed Ic	may be assessed if samples are retained longer	than	11	month)	(1)			
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank 2	ble Rank 2			sp	Special Instructions/QC	al Instructions/QC	uctio	ns/Q		Requirements	eme	ints			ľ					9					ľ		
Empty Kit Relinquished by		Date			Time		\neg							Meti	Method of Shipment:	Shipn	nent:									ĺ		
Relinquished by Mrs GAD 5-2-22	Date/Time			Company		Reg	D	E	\mathbb{N}	$\boldsymbol{\Sigma}$	/ *i		ð I	\leq i	\mathbb{N}	Date/Tim		2	3	۲	2	18. 19. 19.	0	Company	pany			
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Custody Seals Intact: Custody Seal No							Cooler Temperature(s) °C	npera	ture(s		and Ot	her R	Other Remarks.	S.		Ġ	0		5			. (0	1		$ \nabla $		
																								Ver-	06/0	8/20%	-	

Job Number: 890-2263-1 SDG Number: 03a1987005

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2263 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

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

Job Number: 890-2263-1 SDG Number: 03a1987005

List Source: Eurofins Midland

List Creation: 05/03/22 01:30 PM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2263 List Number: 2 Creator: Rodriguez, Leticia

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

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

Received by OCD: 1/25/2023 12:00:26 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2270-1

Laboratory Sample Delivery Group: Eddy County,NM Client Project/Site: North Brushy Draw 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/12/2022 2:18:10 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 5/23/2023 8:29:46 AM

SDG: Eddy County,NM

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Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
-	19

Job ID: 890-2	270-1
SDG: Eddy Cour	ity,NM

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	8
U	Indicates the analyte was analyzed for but not detected.	U
HPLC/IC		Q
Qualifier	Qualifier Description	3
U	Indicates the analyte was analyzed for but not detected.	10
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	- 11
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	40
%R	Percent Recovery	
CFL	Contains Free Liquid	1.0
CFU	Colony Forming Unit	13
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	

 MPN
 Most Probable Number

 MQL
 Method Quantitation Limit

 NC
 Not Calculated

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

NEG Negative / Absent

ND

 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

Project/Site: North Brushy Draw 35-2H

4

Job ID: 890-2270-1 SDG: Eddy County,NM

Job ID: 890-2270-1

Client: Ensolum

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2270-1

Receipt

The samples were received on 5/3/2022 8:13 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 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25088 and analytical batch 880-25306 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside of acceptance limits: BH01 (890-2270-2) and (CCV 880-25306/20). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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.

Project/Site: North Brushy Draw 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 890-2270-1 SDG: Eddy County,NM

Client Sample ID: BH01

Date Collected: 04/29/22 11:25 Date Received: 05/03/22 08:13

Sample Depth: 0.5'

Client: Ensolum

Lab Sample ID: 890-2270-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202		mg/Kg		05/09/22 11:53	05/11/22 15:19	1
Toluene	<0.00202	U F2 F1	0.00202		mg/Kg		05/09/22 11:53	05/11/22 15:19	1
Ethylbenzene	<0.00202	U F2 F1	0.00202		mg/Kg		05/09/22 11:53	05/11/22 15:19	1
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.00404		mg/Kg		05/09/22 11:53	05/11/22 15:19	1
o-Xylene	<0.00202	U F2 F1	0.00202		mg/Kg		05/09/22 11:53	05/11/22 15:19	1
Xylenes, Total	<0.00404	U F2 F1	0.00404		mg/Kg		05/09/22 11:53	05/11/22 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/09/22 11:53	05/11/22 15:19	1
1,4-Difluorobenzene (Surr)	71		70 - 130				05/09/22 11:53	05/11/22 15:19	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/12/22 13:53	1
_ Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/06/22 11:03	1
Method: 8015B NM - Diesel Ran		RO) (GC) Qualifier	ы	MDI	Unit	D	Bronorod	Applyzod	
Analyte		U *- *1			Unit		Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	0 - 1	49.9		mg/Kg		05/05/22 11:19	05/06/22 04:53	I
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 04:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/22 11:19	05/06/22 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				05/05/22 11:19	05/06/22 04:53	1
o-Terphenyl	99		70 - 130				05/05/22 11:19	05/06/22 04:53	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/22 21:47	1
Client Sample ID: BH01							Lab Sar	nple ID: 890-	2270-2
Date Collected: 04/29/22 11:30								Matr	ix: Solid
Date Received: 05/03/22 08:13									
Sample Depth: 4'									
– Method: 8021B - Volatile Organi	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201	m	ng/Kg		05/09/22 11:53	05/11/22 15:47	1
Toluene	<0.00201	U	0.00201	m	ng/Kg		05/09/22 11:53	05/11/22 15:47	1
Ethylbenzene	<0.00201	U	0.00201	r	ng/Kg		05/09/22 11:53	05/11/22 15:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	r	ng/Kg		05/09/22 11:53	05/11/22 15:47	1
o-Xylene	<0.00201	U	0.00201	r	ng/Kg		05/09/22 11:53	05/11/22 15:47	1
Xylenes, Total	<0.00402	U	0.00402	m	ng/Kg		05/09/22 11:53	05/11/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				05/09/22 11:53	05/11/22 15:47	1

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Client Sample Results

Limits

70 - 130

RL

RL

50.0

0.00402

MDL Unit

MDL Unit

mg/Kg

mg/Kg

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Client Sample ID: BH01

Date Collected: 04/29/22 11:30 Date Received: 05/03/22 08:13

Sample Depth: 4'

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Job ID: 890-2270-1 SDG: Eddy County,NM

Lab Sample ID: 890-2270-2

Analyzed

05/11/22 15:47

Analyzed

05/12/22 13:53

Analyzed

05/06/22 11:03

Prepared

05/09/22 11:53

Prepared

Prepared

D

D

Matrix: Solid

Dil Fac 1	
Dil Fac	
1	
Dil Fac	

Dil Fac

1

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

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

Method: Total BTEX - Total BTEX Calculation

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

<50.0 U

75

<0.00402 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *- *1	50.0		mg/Kg		05/05/22 11:19	05/06/22 05:14	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 05:14	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/06/22 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				05/05/22 11:19	05/06/22 05:14	1
o-Terphenyl	106		70 - 130				05/05/22 11:19	05/06/22 05:14	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.0		4.98		mg/Kg			05/05/22 21:57	1

Project/Site: North Brushy Draw 35-2H

Job ID: 890-2270-1 SDG: Eddy County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-2270-1	BH01	109	71		÷
890-2270-1 MS	BH01	154 S1+	89		
890-2270-1 MSD	BH01	129	97		2
890-2270-2	BH01	149 S1+	75		
LCS 880-25088/1-A	Lab Control Sample	150 S1+	94		
LCSD 880-25088/2-A	Lab Control Sample Dup	137 S1+	85		
MB 880-25088/5-A	Method Blank	107	76		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
o Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)	
)-2268-A-2-C MS	Matrix Spike	88	89	
268-A-2-D MSD	Matrix Spike Duplicate	86	85	
70-1	BH01	94	99	
70-2	BH01	101	106	
0-24872/2-A	Lab Control Sample	101	104	
) 880-24872/3-A	Lab Control Sample Dup	113	117	
880-24872/1-A	Method Blank	90	99	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25088/5-A Matrix: Solid Analysis Batch: 25306							Client Sa	mple ID: Metho Prep Type: ⊺ Prep Batch	Fotal/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 11:53	05/11/22 14:53	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/09/22 11:53	05/11/22 14:53	1
1,4-Difluorobenzene (Surr)	76		70 - 130				05/09/22 11:53	05/11/22 14:53	1
Lab Sample ID: LCS 880-25088/1-A						c	lient Sample I	D: Lab Control	Sample
Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 25306								Prep Batch	n: 25088

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1130		mg/Kg		113	70 - 130	
Toluene	0.100	0.1120		mg/Kg		112	70 - 130	
Ethylbenzene	0.100	0.1247		mg/Kg		125	70 - 130	
m-Xylene & p-Xylene	0.200	0.2529		mg/Kg		126	70 - 130	
o-Xylene	0.100	0.1257		mg/Kg		126	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-25088/2-A

Matrix: Solid Local Desta

Analysis Batch: 25306							Prep	Batch:	25088
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1079		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1095		mg/Kg		109	70 - 130	2	35
Ethylbenzene	0.100	0.1195		mg/Kg		120	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2415		mg/Kg		121	70 - 130	5	35
o-Xylene	0.100	0.1191		mg/Kg		119	70 - 130	5	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-2270-1 MS Matrix: Solid

Analysis Batch: 25306

Analysis Batch: 25306									Pre	o Batch: 25088
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	
Toluene	<0.00202	U F2 F1	0.0996	<0.00199	U F1	mg/Kg		2	70 - 130	

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Client Sample ID: BH01

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

5 6 7

Job ID: 890-2270-1

SDG: Eddy County,NM

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QC Sample Results

MS MS

MSD MSD

<0.00199 UF1

0.004587 F1

0.002450 F1

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

Spike

70 - 130

Client: Ensolum Project/Site: North Brushy Draw 35-2H

Lab Sample ID: 890-2270-1 MS

Analysis Batch: 25306

4-Bromofluorobenzene (Surr)

Analysis Batch: 25306

Lab Sample ID: 890-2270-1 MSD

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

Sample Sample

<0.00202 U F2 F1

<0.00404 U F2 F1

<0.00202 U F2 F1

MS MS

Sample Sample

97

%Recovery Qualifier

154 S1+

89

Result Qualifier

Job ID: 890-2270-1 SDG: Eddy County,NM

Client Sample ID: BH01

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

2

2

2

D

Prep Type: Total/NA

Prep Batch: 25088

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 25088

Prep T	ype: Total/NA
Prep	Batch: 25088
%Rec	RPD

	Prep	Batch:	25088
	%Rec		RPD
%Rec	Limits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0992	0.08006		mg/Kg		81	70 - 130	NC	35
Toluene	<0.00202	U F2 F1	0.0992	0.06652	F2 F1	mg/Kg		67	70 - 130	189	35
Ethylbenzene	<0.00202	U F2 F1	0.0992	0.06049	F2 F1	mg/Kg		61	70 - 130	190	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.198	0.1214	F2 F1	mg/Kg		61	70 - 130	185	35
o-Xylene	<0.00202	U F2 F1	0.0992	0.06340	F2 F1	mg/Kg		64	70 - 130	185	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	129		70 - 130								

1,4-Difluorobenzene (Surr) Method: 8015B NM

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

Lab Sample ID: MB 880-24872/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 24856								Prep Batch	n: 24872
-	MB	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/22 11:19	05/05/22 21:06	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				05/05/22 11:19	05/05/22 21:06	1
o-Terphenyl	99		70 - 130				05/05/22 11:19	05/05/22 21:06	1

Lab Sample ID: LCS 880-24872/2-A Matrix: Solid naluale Databy 04050

Analysis Batch: 24856						Prep	Batch: 24872	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	973.5		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1047		mg/Kg		105	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

QC Sample Results

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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

Lab Sample ID: LCS 880-248	872/2_4						Client	Sample	e ID: Lab Co	ontrol S	amplo	
Matrix: Solid	DI 212-A						Chem	Sample		Sinitor S Type: To		
Analysis Batch: 24856										Batch:		
Analysis Bateri 21000										brotter:		F
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	101		70 - 130									
o-Terphenyl	104		70 - 130									7
Lab Sample ID: LCSD 880-24	4872/3-A					Clier	nt Sam	ple ID:	Lab Contro	l Sampl	e Dup	
Matrix: Solid										Гуре: То		9
Analysis Batch: 24856										Batch:		
			Spike	LCSD	LCSD				%Rec		RPD	G
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	609.9	*- *1	mg/Kg		61	70 - 130	46	20	
Diesel Range Organics (Over C10-C28)			1000	1073		mg/Kg		107	70 - 130	2	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane			70 _ 130									
o-Terphenyl	117		70 _ 130									
_ Lab Sample ID: 890-2268-A-/	2-C MS							Client	Sample ID	: Matrix	Spike	
Matrix: Solid										Type: To		
Analysis Batch: 24856										Batch:		
·	Sample	Sample	Spike	MS	MS				%Rec			
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics		U *- *1	1000	823.4		mg/Kg		80	70 - 130			
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	1000	878.5		mg/Kg		86	70 - 130			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	88		70 - 130									
o-Terphenyl	89		70 - 130									
_ Lab Sample ID: 890-2268-A-/	2-D MSD					CI	ient Sa	ample II	D: Matrix Sp	oike Dur	olicate	
Matrix: Solid										Type: To		
										, po. 10		

Matrix: Solid Analysis Batch: 24856 Prep Batch: 24872 Spike MSD MSD %Rec RPD Sample Sample Result Qualifier Added Limit Analyte Result Qualifier Unit D %Rec Limits RPD Gasoline Range Organics <49.9 U *- *1 998 808.2 78 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 843.1 mg/Kg 83 70 - 130 4 20 C10-C28) ...

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

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Client: Ensolum

QC Sample Results

Job ID: 890-2270-1 SDG: Eddy County,NM

Project/Site: North Brushy Draw 35-2H Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24816/1-A												Client S	ample ID:	: Method	l Blank
Matrix: Solid													Prep	o Type: S	Soluble
Analysis Batch: 24926															
		MB													
Analyte			Qualifier		RL		MDL			D	P	repared	Analy	·	Dil Fac
Chloride	<	<5.00	U		5.00			mg/Kg					05/05/22	2 17:39	
Lab Sample ID: LCS 880-24816/2-A										Cli	ent	Sample	ID: Lab C	Control S	Sample
Matrix: Solid													Prep	o Type: S	Soluble
Analysis Batch: 24926															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride				250		266.6			mg/Kg			107	90 - 110		
Lab Sample ID: LCSD 880-24816/3-	A								Cli	ient S	Sam	ple ID:	Lab Contr	ol Samp	le Dur
Matrix: Solid												-	Prep	o Type: S	Soluble
Analysis Batch: 24926															
				Spike		LCSD	LCSI	D					%Rec		RPD
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		256.8			mg/Kg			103	90 - 110	4	20
Lab Sample ID: 890-2269-A-7-B MS												Client	Sample II	D: Matrix	c Spike
Matrix: Solid													Prep	o Type: S	Soluble
Analysis Batch: 24926													-		
	Sample	Samp	le	Spike		MS	MS						%Rec		
Analyte	Result	Qualif	fier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride	147			253		384.4			mg/Kg		_	94	90 - 110		
Lab Sample ID: 890-2269-A-7-C MS	D									Client	t Sa	mple IF): Matrix S	Spike Du	plicate
Matrix: Solid	_													o Type: S	
Analysis Batch: 24926															
•	Sample	Samp	le	Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qualif	fier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
<i>F</i> alary to															

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H

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Job ID: 890-2270-1 SDG: Eddy County,NM

GC VOA

Prep Batch: 25088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2270-1	BH01	Total/NA	Solid	5035	
890-2270-2	BH01	Total/NA	Solid	5035	
MB 880-25088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2270-1 MS	BH01	Total/NA	Solid	5035	
890-2270-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 25306

890-2270-1 MSD	BH01	Iotal/NA	Solia	5035		
Analysis Batch: 25306						8
Lab Sample ID 890-2270-1	Client Sample ID BH01	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 25088	9
890-2270-2	BH01	Total/NA	Solid	8021B	25088	
MB 880-25088/5-A	Method Blank	Total/NA	Solid	8021B	25088	
LCS 880-25088/1-A	Lab Control Sample	Total/NA	Solid	8021B	25088	
LCSD 880-25088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25088	
890-2270-1 MS	BH01	Total/NA	Solid	8021B	25088	
890-2270-1 MSD	BH01	Total/NA	Solid	8021B	25088	
Analysis Batch: 25434						13

Analysis Batch: 25434

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2270-1	BH01	Total/NA	Solid	Total BTEX	
890-2270-2	BH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2270-1	BH01	Total/NA	Solid	8015B NM	24872
890-2270-2	BH01	Total/NA	Solid	8015B NM	24872
MB 880-24872/1-A	Method Blank	Total/NA	Solid	8015B NM	24872
LCS 880-24872/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24872
LCSD 880-24872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24872
890-2268-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	24872
890-2268-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24872

Prep Batch: 24872

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2270-1	BH01	Total/NA	Solid	8015NM Prep	
890-2270-2	BH01	Total/NA	Solid	8015NM Prep	
MB 880-24872/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24872/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24872/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2268-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2268-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2270-1	BH01	Total/NA	Solid	8015 NM	
890-2270-2	BH01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Page 272 of 314

Job ID: 890-2270-1 SDG: Eddy County,NM

HPLC/IC

Leach Batch: 24816

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-2270-1	BH01	Soluble	Solid	DI Leach	
90-2270-2	BH01	Soluble	Solid	DI Leach	
/IB 880-24816/1-A	Method Blank	Soluble	Solid	DI Leach	
.CS 880-24816/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-24816/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-2269-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
90-2269-A-7-C MSD nalysis Batch: 24926		Soluble Prop Type	Solid	DI Leach	Dron Batch
90-2269-A-7-C MSD nalysis Batch: 24926					Drop Botch
90-2269-A-7-C MSD		Soluble Prep Type Soluble	Solid <u>Matrix</u> Solid	DI Leach Method 	Prep Batch 24816
990-2269-A-7-C MSD nalysis Batch: 24926 .ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	
990-2269-A-7-C MSD nalysis Batch: 24926 .ab Sample ID 190-2270-1	Client Sample ID BH01	Prep Type Soluble	Matrix Solid	Method 300.0	24816
990-2269-A-7-C MSD nalysis Batch: 24926 .ab Sample ID 190-2270-1 190-2270-2	Client Sample ID BH01 BH01	Prep Type Soluble Soluble	Matrix Solid Solid	Method 300.0 300.0	24816 24816
990-2269-A-7-C MSD nalysis Batch: 24926 ab Sample ID 190-2270-1 190-2270-2 //B 880-24816/1-A	Client Sample ID BH01 BH01 Method Blank	Prep Type Soluble Soluble Soluble	Matrix Solid Solid Solid	Method 300.0 300.0 300.0	24816 24816 24816
990-2269-A-7-C MSD halysis Batch: 24926 190-2270-1 190-2270-2 //B 880-24816/1-A .CS 880-24816/2-A	Client Sample ID BH01 BH01 Method Blank Lab Control Sample	Prep Type Soluble Soluble Soluble Soluble	Matrix Solid Solid Solid Solid Solid	Method 300.0 300.0 300.0 300.0 300.0 300.0	24816 24816 24816 24816 24816

Analysis Batch: 24926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2270-1	BH01	Soluble	Solid	300.0	24816	
890-2270-2	BH01	Soluble	Solid	300.0	24816	
MB 880-24816/1-A	Method Blank	Soluble	Solid	300.0	24816	
LCS 880-24816/2-A	Lab Control Sample	Soluble	Solid	300.0	24816	
LCSD 880-24816/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24816	
890-2269-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	24816	
890-2269-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24816	

Project/Site: North Brushy Draw 35-2H

Job ID: 890-2270-1 SDG: Eddy County,NM

Lab Sample ID: 890-2270-1 Matrix: Solid

Lab Sample ID: 890-2270-2

Matrix: Solid

Client Sample ID: BH01 Date Collected: 04/29/22 11:25 Date Received: 05/03/22 08:13

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25088	05/09/22 11:53	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 15:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25434	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24960	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 04:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 21:47	СН	XEN MID

Client Sample ID: BH01

Date Collected: 04/29/22 11:30 Date Received: 05/03/22 08:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25088	05/09/22 11:53	MR	XEN MID
Total/NA	Analysis	8021B		1			25306	05/11/22 15:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25434	05/12/22 13:53	SM	XEN MID
Total/NA	Analysis	8015 NM		1			24960	05/06/22 11:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24872	05/05/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/06/22 05:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24816	05/04/22 12:12	SC	XEN MID
Soluble	Analysis	300.0		1			24926	05/05/22 21:57	СН	XEN MID

Laboratory References:

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

		Accreditation/C	ertification Summary	
Client: Ensolum Project/Site: North Brush	y Draw 35-2H			Job ID: 890-2270-1 SDG: Eddy County,NM
Laboratory: Eurofin	s Midland			3
Unless otherwise noted, all ana	alytes for this laboratory	were covered under each acc	reditation/certification below.	
Authority		Program	Identification Number	Expiration Date 4
Texas		NELAP	T104704400-21-22	06-30-22
The following analytes are	e included in this report	, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
the agency does not offer				
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	
Total BTEX		Solid	Total BTEX	
				8
				Q
				3
				10

Eurofins Carlsbad

.

Method Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2270-1 SDG: Eddy County,NM

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: North Brushy Draw 35-2H Job ID: 890-2270-1 SDG: Eddy County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2270-1	BH01	Solid	04/29/22 11:25	05/03/22 08:13	0.5'
890-2270-2	BH01	Solid	04/29/22 11:30	05/03/22 08:13	4'
000 2210 2	Briot	Cond	0 1120/22 11.00	00/00/22 00.10	•

🔅 eurofins		Environment Testing	festing	Hous	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	ustory allas, TX (214) 902-0300 Intonio, TX (210) 509-3334	Work Order No:	ler No:	
	Xenco	ICO		EL Pa	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	bock, TX (806) 794-1296			
				Hobbs	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	ibad, NM (575) 988-3199	www.xenco.com	co.com Page	of 1
Project Manager:	Anna Byers			Bill to: (if different)	Jim Raley		Work	òn	
	Ensolum			Company Name:			Program: UST/PST PRP Brownfields RRC Superfund	Brownfields RRC	Superfund
	3122 National Parks HWY	irks HWY		Address:	5315 Buena Vista Dr	Dr	State of Project:]
e ZIP:	Carlsbad, NM 88220	220		City, State ZIP:	Carlsbad, NM 88220	20	Reporting: Level II DLevel III DPST/UST TRRP	I DPST/UST TRRF	
	575-200-6754		Email:	Email: AByers@Ensolum.com	um.com		Deliverables: EDD	ADaPT D Other:	
Project Name:	North Brushy Draw 35-2H	Draw 35-2H	Turn	Turn Around		ANALYSIS RE	IS REQUEST	Preserva	Preservative Codes
Project Number:	03A1987005	37005	Routine	1	Pres. Code			None: NO	DI Water: H ₂ O
Project Location:	Eddy County, NM	inty, NM	Due Date:	5 Day TAT				Cool: Cool	MeOH: Me
Sampler's Name:	Gilbert Moreno	Noreno	TAT starts the	TAT starts the day received by		-	-	HCL: HC	HNO3: HN
CC #	1061121501	21501	the lab, if rec	the lab, if received by 4:30pm	ers			H2SO4: H2	NaOH: Na
SAMPLE RECEIPT		nk: (Yes)No	Wet Ice:	Yes No	_			H ₃ PO ₄ : HP	
Samples Received Intact:	(Yes) N	1	eter ID:	212,00	aran : 300			NaHSO4: NABIS	ν ώ
Conclo Castral Control			Total and the Destination		-	890-2270 Chain o	hain of Custody	Zn Acetate+NaOH: Zn	OH: 7n
Total Containers:			Corrected Temperature:	2.0	15)	_		NaOH+Ascorbic Acid: SAPC	c Acid: SAPC
Sample Identification		Matrix Date Sampled	Time Sampled	Depth Grab/ Comp	CHLOR TPH (80 BTEX (Sample	Sample Comments
BH01	S		11:25	0.5' Comp	×				
BH01	S	4.29.22	11:30	4' Comp	1 X X X				Incident ID
									1/1/2082
				8	5-3-22				
		-	(in	10					
				C					
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM	PM Texas 11	Al Sb As Ba Be B	Cd Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se	Ag SiO2 Na Sr TI Sn U	JVZn
Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of sar of service. Eurofins Xenco will be liable only for the cost of s	d Metal(s) to be a ocument and relinquist will be liable only for t	analyzed ment of samples co	TCLP / SF and shall not assu	TCLP / SPLP 6010: 8RCRA tutes a valid purchase order from client: shall not assume any responsibility for a	RA Sb As Ba Be lient company to Eurofins X y for any losses or expenses	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag 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 state 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 to bases are will be and the order of service.	TI U ndard terms and c instances beyond t	Hg: 1631 / 245.1 / 7470 / 7471 onditions he control he sociated	1/4/1
Relinquished by: (Signature)	(Signature)	C Receiv	Received by: (Signature)	ture)	Date/Time	Relinquished by: (Signature)	iture) Received by: (Signature)	Signature)	Date/Time
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5						0	-	Revised Da	Revised Date 08/25/2020 Rev. 2020.2

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Released to Imaging: 5/23/2023 8:29:46 AM

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5

Job Number: 890-2270-1 SDG Number: Eddy County,NM

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2270 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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

14

Job Number: 890-2270-1 SDG Number: Eddy County,NM

List Source: Eurofins Midland

List Creation: 05/04/22 10:56 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2270 List Number: 2 Creator: Teel, Brianna

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

Received by OCD: 1/25/2023 12:00:26 AM

LINKS

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2329-1

Laboratory Sample Delivery Group: 03A1987005 Client Project/Site: NORTH BRUSHY 35-2H

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Anna Byers

RAMER

Authorized for release by: 5/26/2022 11:57:47 AM Jessica Kramer, Project Manager (432)704-5440 Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary	20
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Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

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

Dilution Factor

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

DER

DL

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

ML MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC RER

RL

RPD

TEF TEQ

TNTC

Dil Fac

DL, RA, RE, IN

cerveu by OC		r uge 202 0J 5	14
	Definitions/Glossary		
Client: Ensolu Project/Site: I	um NORTH BRUSHY 35-2H	Job ID: 890-2329-1 SDG: 03A1987005	
Qualifiers			
GC VOA Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		_
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
*1	LCS/LCSD RPD exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
*_	LCS and/or LCSD is outside acceptance limits, low biased.		
*1	LCS/LCSD RPD exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
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		4
CNF	Contains No Free Liquid		

Job ID: 890-2329-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2329-1

Receipt

The samples were received on 5/20/2022 11:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-25990/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-2327-A-1-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS03 (890-2329-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or guality 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: (890-2327-A-21-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26030 and analytical batch 880-26020 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. The MS/MSD RPD passes therefore shows recovery for the batch.

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 laboratory control sample (LCS) associated with preparation batch 880-26108 and analytical batch 880-26223 was outside acceptance criteria. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

Limits

70 - 130

70 - 130

RL

RL

49.9

RL

49.9

49.9

49 9

0.00401

MDL

MDL Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

05/23/22 13:00

05/23/22 13:00

05/23/22 13:00

05/23/22 13:00

05/23/22 13:00

05/23/22 13:00

Prepared

05/23/22 13:00

05/23/22 13:00

Prepared

Job ID: 890-2329-1 SDG: 03A1987005

Client Sample ID: FS01

Project/Site: NORTH BRUSHY 35-2H

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

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

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

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

117

92

< 0.00401

Result Qualifier

U

Result Qualifier

Result Qualifier

<49.9 U *1

<49.9 U

<49.9 U

<49.9 U

%Recovery

Date Collected: 05/19/22 10:30 Date Received: 05/20/22 11:35

Sample Depth: 4

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

SDG: 03A198700

Analyzed

05/23/22 23:38

05/23/22 23:38

05/23/22 23:38

05/23/22 23:38

05/23/22 23:38

05/23/22 23:38

Analyzed

05/23/22 23:38

05/23/22 23:38

Analyzed

05/24/22 11:57

Lab Sample ID: 890-2329-1 Matrix: Solid

Jona

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/24/22 09:49	Dil Fac	13 14
MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	mg/Kg	_	05/23/22 08:26	05/23/22 17:17	1	
	mg/Kg		05/23/22 08:26	05/23/22 17:17	1	
	mg/Kg		05/23/22 08:26	05/23/22 17:17	1	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analvzed	Dil Fac
		Linits	r repareu	Analyzeu	Dirrac
1-Chlorooctane	109	70 - 130	05/23/22 08:26	05/23/22 17:17	1
o-Terphenyl	118	70 - 130	05/23/22 08:26	05/23/22 17:17	1
Method: 300.0 - Anions, Ion Chrom	atography - Soluble				

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.3	*- *1	5.05	mg/Kg			05/25/22 19:14	1
Client Sample ID: FS02						Lab Sa	mple ID: 890-2	2329-2

Client Sample ID: FS02 Date Collected: 05/19/22 12:45 Date Received: 05/20/22 11:35

Sample Depth: 4

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/22 13:00	05/24/22 00:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/22 13:00	05/24/22 00:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/22 13:00	05/24/22 00:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/22 13:00	05/24/22 00:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/22 13:00	05/24/22 00:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/22 13:00	05/24/22 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				05/23/22 13:00	05/24/22 00:04	1

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Matrix: Solid

Client Sample Results

Limits

70 - 130

RL

RL

50.0

0.00402

MDL Unit

MDL Unit

mg/Kg

mg/Kg

Job ID: 890-2329-1 SDG: 03A1987005

Client Sample ID: FS02

Project/Site: NORTH BRUSHY 35-2H

Date Collected: 05/19/22 12:45 Date Received: 05/20/22 11:35

Sample Depth: 4

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Client: Ensolum

Lab Sample ID: 890-2329-2

Analyzed

05/24/22 00:04

Analyzed

05/24/22 11:57

Analyzed

05/24/22 09:49

Lab Sample ID: 890-2329-3

Matrix: Solid

Prepared

05/23/22 13:00

Prepared

Prepared

D

D

Matrix: Solid

Dil Fac

Dil Fac

5

1	8
Dil Fac	9
1	
Dil Fac	
1	
	13

Method: 8015B NM - Diesel	Range Organics (DRO) (GO	2)
Analyte	Result Qualifier	r

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

Method: Total BTEX - Total BTEX Calculation

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

%Recovery Qualifier

Result Qualifier

Ū

Result Qualifier

91

< 0.00402

<50.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		05/23/22 08:26	05/23/22 17:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 17:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				05/23/22 08:26	05/23/22 17:39	1
o-Terphenyl	109		70 - 130				05/23/22 08:26	05/23/22 17:39	1

Method: 300.0 - Anions, Ion Chron	hatography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.4	*- *1	4.98	mg/Kg			05/25/22 20:35	1

Client Sample ID: FS03

Date Collected: 05/19/22 12:50 Date Received: 05/20/22 11:35 Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 05/23/22 13:00 05/24/22 00:30 Toluene <0.00202 U 0.00202 mg/Kg 05/23/22 13:00 05/24/22 00:30 1 Ethylbenzene <0.00202 U 0.00202 mg/Kg 05/23/22 13:00 05/24/22 00:30 0.00403 05/24/22 00:30 m-Xylene & p-Xylene <0.00403 U 05/23/22 13:00 mg/Kg 1 o-Xylene <0.00202 U 0.00202 mg/Kg 05/23/22 13:00 05/24/22 00:30 Xylenes, Total <0.00403 U 0.00403 mg/Kg 05/23/22 13:00 05/24/22 00:30 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 4-Bromofluorobenzene (Surr) S1+ 70 - 130 05/23/22 13:00 136 05/24/22 00:30 1 1,4-Difluorobenzene (Surr) 92 70 - 130 05/23/22 13:00 05/24/22 00:30 1 Method: Total BTEX - Total BTEX Calculation Analvte RL MDL D Dil Fac Result Qualifier Unit Prepared Analvzed Total BTEX < 0.00403 Ū 0.00403 mg/Kg 05/24/22 11:57 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U 05/24/22 09:49 Total TPH 49.9 mg/Kg 1

Project/Site: NORTH BRUSHY 35-2H

Client Sample Results

Job ID: 890-2329-1 SDG: 03A1987005

Client Sample ID: FS03

Date Collected: 05/19/22 12:50 Date Received: 05/20/22 11:35

Sample Depth: 4.5

Client: Ensolum

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:01	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/23/22 08:26	05/23/22 18:01	1
o-Terphenyl	100		70 - 130				05/23/22 08:26	05/23/22 18:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Chloride	170	*- *1	5.00		mg/Kg		_		05/25/22 20:42	1

Client Sample ID: FS04

Date Collected: 05/19/22 12:55 Date Received: 05/20/22 11:35

Sample Depth: 4 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 00:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 00:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 00:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/22 13:00	05/24/22 00:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/22 13:00	05/24/22 00:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/22 13:00	05/24/22 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				05/23/22 13:00	05/24/22 00:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/23/22 13:00	05/24/22 00:55	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/24/22 11:57	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/24/22 09:49	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:23	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/22 08:26	05/23/22 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/23/22 08:26	05/23/22 18:23	1

		Clien	t Sample R	esults	;				
Client: Ensolum Project/Site: NORTH BRUSHY 35-2ł	4							Job ID: 890 SDG: 03A1	
Client Sample ID: FS04							Lab San	nple ID: 890-	2329-4
Date Collected: 05/19/22 12:55 Date Received: 05/20/22 11:35 Sample Depth: 4 - 4.5								-	x: Solid
Method: 300.0 - Anions, Ion Chron Analyte	• • •	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159	*- *1	4.99		mg/Kg			05/25/22 21:05	1
Client Sample ID: FS18 Date Collected: 05/19/22 13:00 Date Received: 05/20/22 11:35 Sample Depth: 3.5							Lab San	nple ID: 890- Matri	2329-5 x: Solid
Method: 8021B - Volatile Organic									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199		mg/Kg		05/23/22 13:00	05/24/22 01:21	1
Toluene	<0.00199		0.00199		mg/Kg		05/23/22 13:00	05/24/22 01:21	1
Ethylbenzene	<0.00199		0.00199		mg/Kg		05/23/22 13:00	05/24/22 01:21	1
m-Xylene & p-Xylene	<0.00398		0.00398		mg/Kg		05/23/22 13:00	05/24/22 01:21	1
o-Xylene	<0.00199		0.00199		mg/Kg		05/23/22 13:00	05/24/22 01:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/22 13:00	05/24/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				05/23/22 13:00	05/24/22 01:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/23/22 13:00	05/24/22 01:21	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/24/22 11:57	1
– Method: 8015 NM - Diesel Range (Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/24/22 09:49	1
– Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0		mg/Kg		05/23/22 08:26	05/23/22 18:44	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:44	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				05/23/22 08:26	05/23/22 18:44	1
o-Terphenyl	102		70 - 130				05/23/22 08:26	05/23/22 18:44	1
_ Method: 300.0 - Anions, Ion Chroi	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		5.00						

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Lab Sample ID Client Sample ID (70-130) (70-130) 890-2327-A-1-I MS Matrix Spike 125 88 890-2327-A-1-J MSD Matrix Spike Duplicate 120 92 890-2329-1 FS01 117 92 FS02 91 890-2329-2 119 890-2329-3 FS03 136 S1+ 92 FS04 98 890-2329-4 127 890-2329-5 FS18 128 96 LCS 880-25990/1-A 133 S1+ 98 Lab Control Sample LCSD 880-25990/2-A Lab Control Sample Dup 123 89 MB 880-25990/5-A Method Blank 91 89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2327-A-21-B MS	Matrix Spike	115	114
890-2327-A-21-C MSD	Matrix Spike Duplicate	103	101
890-2329-1	FS01	109	118
890-2329-2	FS02	106	109
890-2329-3	FS03	98	100
890-2329-4	FS04	106	110
890-2329-5	FS18	98	102
LCS 880-26030/2-A	Lab Control Sample	130	130
LCSD 880-26030/3-A	Lab Control Sample Dup	110	110
MB 880-26030/1-A	Method Blank	107	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-2329-1 SDG: 03A1987005

Prep Type: Total/NA

Prep Type: Total/NA
QC Sample Results

Lab Sample ID: MB 880-25990/5-A

Matrix: Solid

Analysis Batch: 26082

MB MB

	Job ID: 890		
	SDG: 03A	1987005	
Client Sa	mple ID: Metho	d Blank	
Client Sa	Prep Type:	Total/NA	
Client Sa		Total/NA	4
Client Sa Prepared	Prep Type:	Total/NA	4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/22 15:46	05/23/22 17:31	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				05/20/22 15:46	05/23/22 17:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/20/22 15:46	05/23/22 17:31	1
Lab Sample ID: LCS 880-25990/1	-A					c	lient Sample I	D: Lab Control	Sample
Matrix: Solid								Prep Type: 7	Total/NA
Analysis Batch: 26082								Prep Batch	n: 25990

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1157		mg/Kg		116	70 - 130	
0.100	0.1180		mg/Kg		118	70 - 130	
0.100	0.1195		mg/Kg		119	70 - 130	
0.200	0.2405		mg/Kg		120	70 - 130	
0.100	0.1179		mg/Kg		118	70 - 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.1157 0.100 0.1180 0.100 0.1195 0.200 0.2405	Added Result Qualifier 0.100 0.1157	Added Result Qualifier Unit 0.100 0.1157 mg/Kg 0.100 0.1180 mg/Kg 0.100 0.1195 mg/Kg 0.200 0.2405 mg/Kg	Added Result Qualifier Unit D 0.100 0.1157 mg/Kg mg/Kg 0.100 0.1180 mg/Kg 0.100 0.1195 mg/Kg 0.200 0.2405 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1157 mg/Kg 116 0.100 0.1180 mg/Kg 118 0.100 0.1195 mg/Kg 119 0.200 0.2405 mg/Kg 120	Added Result Qualifier Unit D %Rec Limits 0.100 0.1157 mg/Kg 116 70 - 130 0.100 0.1180 mg/Kg 118 70 - 130 0.100 0.1195 mg/Kg 119 70 - 130 0.200 0.2405 mg/Kg 120 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Matrix: Solid olo Detel

Analysis Batch: 26082							Prep	Batch:	25990
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	10	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	8	35
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	9	35
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130	9	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-2327-A-1-I MS

Matrix: Solid

Analysis Batch: 26082									Prep	b Batch: 2	25990
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U	0.100	0.09613		mg/Kg		96	70 - 130		
Toluene	<0.00201	U	0.100	0.09530		mg/Kg		95	70 - 130		

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Released to Imaging: 5/23/2023 8:29:46 AM

QC Sample Results

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.08810

0.1722

0.08471

Spike

Added

0.100

0.200

0.100

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: NORTH BRUSHY 35-2H

Lab Sample ID: 890-2327-A-1-I MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 26082

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Sample Sample

<0.00201

<0.00402 U

<0.00201 U

125

88

92

%Recovery

Result Qualifier

U

MS MS

Qualifier

Job ID: 890-2329-1 SDG: 03A1987005

Prep Type: Total/NA

Prep Batch: 25990

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

88

86

85

D

7

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

Matrix: Solid Analysis Batch: 26082

Lab Sample ID: 890-2327-A-1-J MSD

Analysis Batch: 26082									Prep	Batch:	25990	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0998	0.09841		mg/Kg		99	70 - 130	2	35	
Toluene	<0.00201	U	0.0998	0.09590		mg/Kg		96	70 - 130	1	35	ï
Ethylbenzene	<0.00201	U	0.0998	0.09046		mg/Kg		91	70 - 130	3	35	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1805		mg/Kg		90	70 - 130	5	35	ŝ
o-Xylene	<0.00201	U	0.0998	0.08776		mg/Kg		88	70 - 130	4	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	120		70 _ 130									

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

Lab Sample ID: MB 880-26030/1-/ Matrix: Solid Analysis Batch: 26020	A						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/22 08:26	05/23/22 10:03	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/23/22 08:26	05/23/22 10:03	1
o-Terphenyl	114		70 - 130				05/23/22 08:26	05/23/22 10:03	1

Lab Sample ID: LCS 880-26030/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 26020 Prep Batch: 26030 LCS LCS Spike %Rec Added Qualifier Analyte Result Unit D %Rec Limits 1000 107 70 - 130 Gasoline Range Organics 1073 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1058 mg/Kg 106 70 - 130 C10-C28)

QC Sample Results

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: NORTH BRUSHY 35-2H

Lab Sample ID: LCS 880-26030/2-A

Lab Sample ID: LCSD 880-26030/3-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 26020

Analysis Batch: 26020

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

LCS LCS %Recovery Qualifier

130

130

					Job II	D: 890-2	329-1	
					SDG	: 03A198	87005	2
(Continue	d)							3
			Client	Sample	D: Lab Co	ontrol Sa	ample	
						ype: To		4
						Batch:		
								5
								6
		Cliev	at Com		l ch Contro	l Compl	o Dun	7
		Cilei	nt Sam	ipie iD: i	Lab Contro			
						ype: To		δ
						Batch:		
LCSD			_	a	%Rec		RPD	9
	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
844.8	*1	mg/Kg		84	70 - 130	24	20	10
877.5		mg/Kg		88	70 - 130	19	20	
								11

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Analysis Datch. 20020									Fieh	Datch.	20030
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	844.8	*1	mg/Kg		84	70 - 130	24	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	877.5		mg/Kg		88	70 - 130	19	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	110		70 - 130								
_ Lab Sample ID: 890-2327-A	-21-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: Tot	
Analysis Batch: 26020										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U *1	1000	1181		mg/Kg		115	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	1000	1228		mg/Kg		123	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	114		70 - 130								
- Lab Sample ID: 890-2327-A	-21-C MSD					CI	ient Sa	ample IC): Matrix S	oike Dur	licate
Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 26020									Prep	Batch:	26030
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U *1	999	1023		mg/Kg		100	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	1081		mg/Kg		108	70 - 130	13	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								

101 70 - 130 o-Terphenyl

Client: Ensolum

QC Sample Results

Job ID: 890-2329-1 SDG: 03A1987005

Project/Site: NORTH BRUSHY 35-2H

Method: 300.0 - Anions, Ion Chromatography

												0			Disale
Lab Sample ID: MB 880-26108/1-A												Client	Sample ID		
Matrix: Solid													Pre	p Type: S	oluble
Analysis Batch: 26223															
	_		MB							_	_				
Analyte			Qualifier		RL		MDL			<u>D</u>	Pr	epared		yzed	Dil Fac
Chloride	<	<5.00	U		5.00			mg/Kg					05/25/2	2 17:22	1
Lab Sample ID: LCS 880-26108/2-A										Clie	ent	Sample	ID: Lab	Control S	ample
Matrix: Solid													Pre	p Type: S	oluble
Analysis Batch: 26223															
-				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Quali	fier	Unit		D	%Rec	Limits		
Chloride				250		248.9			mg/Kg			100	90 - 110		
Lab Sample ID: LCSD 880-26108/3-4	\								Cli	ent S	am	ole ID:	Lab Cont	rol Samp	le Dun
Matrix: Solid	-													p Type: S	
Analysis Batch: 26223														.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				Spike		LCSD	LCSE)					%Rec		RPD
Analyte				Added		Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		169.4	*- *1		mg/Kg			68	90 - 110	38	20
Lab Sample ID: 890-2329-3 MS													Client S	ample ID	: FS03
Matrix: Solid														p Type: S	
Analysis Batch: 26223															
	Sample	Samp	ole	Spike		MS	MS						%Rec		
Analyte	Result	Quali	fier	Added		Result	Quali	fier	Unit		D	%Rec	Limits		
Chloride	170	*- *1		250		407.4			mg/Kg			95	90 - 110		
Lab Sample ID: 890-2329-3 MSD													Client S	ample ID	: FS03
Matrix: Solid														p Type: S	
Analysis Batch: 26223															
-	Sample	Samp	ole	Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qualit	fier	Added		Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	170														

QC Association Summary

Client: Ensolum Project/Site: NORTH BRUSHY 35-2H

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Job ID: 890-2329-1 SDG: 03A1987005

GC VOA

Prep Batch: 25990

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2329-1	FS01	Total/NA	Solid	5035	
890-2329-2	FS02	Total/NA	Solid	5035	
890-2329-3	FS03	Total/NA	Solid	5035	
890-2329-4	FS04	Total/NA	Solid	5035	
890-2329-5	FS18	Total/NA	Solid	5035	
MB 880-25990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2327-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
890-2327-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26082

LC3 000-25990/ 1-A	Lab Control Sample	TOtal/INA	Soliu	5055		
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		8
890-2327-A-1-I MS	Matrix Spike	Total/NA	Solid	5035		
890-2327-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		9
Analysis Batch: 26082						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2329-1	FS01	Total/NA	Solid	8021B	25990	
890-2329-2	FS02	Total/NA	Solid	8021B	25990	
890-2329-3	FS03	Total/NA	Solid	8021B	25990	
890-2329-4	FS04	Total/NA	Solid	8021B	25990	
890-2329-5	FS18	Total/NA	Solid	8021B	25990	4.0
MB 880-25990/5-A	Method Blank	Total/NA	Solid	8021B	25990	13
LCS 880-25990/1-A	Lab Control Sample	Total/NA	Solid	8021B	25990	
LCSD 880-25990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25990	
890-2327-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	25990	
890-2327-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25990	

Analysis Batch: 26177

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2329-1	FS01	Total/NA	Solid	Total BTEX	
890-2329-2	FS02	Total/NA	Solid	Total BTEX	
890-2329-3	FS03	Total/NA	Solid	Total BTEX	
890-2329-4	FS04	Total/NA	Solid	Total BTEX	
890-2329-5	FS18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26020

Prep Batch: 26030					
- Dese Detaks 00000					
890-2327-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26030
890-2327-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26030
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26030
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26030
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015B NM	26030
890-2329-5	FS18	Total/NA	Solid	8015B NM	26030
890-2329-4	FS04	Total/NA	Solid	8015B NM	26030
890-2329-3	FS03	Total/NA	Solid	8015B NM	26030
890-2329-2	FS02	Total/NA	Solid	8015B NM	26030
890-2329-1	FS01	Total/NA	Solid	8015B NM	26030
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch

Total/NA 8015NM Prep 890-2329-1 FS01 Solid 890-2329-2 FS02 Total/NA Solid 8015NM Prep

QC Association Summary

Client: Ensolum Project/Site: NORTH BRUSHY 35-2H

GC Semi VOA (Continued)

Prep Batch: 26030 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2329-3	FS03	Total/NA	Solid	8015NM Prep	
890-2329-4	FS04	Total/NA	Solid	8015NM Prep	
890-2329-5	FS18	Total/NA	Solid	8015NM Prep	
MB 880-26030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2327-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2327-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2329-1	FS01	Total/NA	Solid	8015 NM	
890-2329-2	FS02	Total/NA	Solid	8015 NM	
890-2329-3	FS03	Total/NA	Solid	8015 NM	
890-2329-4	FS04	Total/NA	Solid	8015 NM	
890-2329-5	FS18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26108

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2329-1	FS01	Soluble	Solid	DI Leach	
890-2329-2	FS02	Soluble	Solid	DI Leach	
890-2329-3	FS03	Soluble	Solid	DI Leach	
890-2329-4	FS04	Soluble	Solid	DI Leach	
890-2329-5	FS18	Soluble	Solid	DI Leach	
MB 880-26108/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26108/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26108/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2329-3 MS	FS03	Soluble	Solid	DI Leach	
890-2329-3 MSD	FS03	Soluble	Solid	DI Leach	

Analysis Batch: 26223

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2329-1	FS01	Soluble	Solid	300.0	26108
890-2329-2	FS02	Soluble	Solid	300.0	26108
890-2329-3	FS03	Soluble	Solid	300.0	26108
890-2329-4	FS04	Soluble	Solid	300.0	26108
890-2329-5	FS18	Soluble	Solid	300.0	26108
MB 880-26108/1-A	Method Blank	Soluble	Solid	300.0	26108
LCS 880-26108/2-A	Lab Control Sample	Soluble	Solid	300.0	26108
LCSD 880-26108/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26108
890-2329-3 MS	FS03	Soluble	Solid	300.0	26108
890-2329-3 MSD	FS03	Soluble	Solid	300.0	26108

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Job ID: 890-2329-1 SDG: 03A1987005 Project/Site: NORTH BRUSHY 35-2H

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Job ID: 890-2329-1 SDG: 03A1987005

Lab Sample ID: 890-2329-1 Matrix: Solid

Lab Sample ID: 890-2329-2

Matrix: Solid

Matrix: Solid

Date Collected: 05/19/22 10:30 Date Received: 05/20/22 11:35

Client Sample ID: FS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/23/22 23:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26177	05/24/22 11:57	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26156	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 17:17	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 19:14	СН	XEN MID

Client Sample ID: FS02

Date Collected: 05/19/22 12:45

Date Received: 05/20/22 11:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 00:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26177	05/24/22 11:57	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26156	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 17:39	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 20:35	СН	XEN MID

Client Sample ID: FS03

Date Collected: 05/19/22 12:50

Date	Rece	ived:	05/20/22	11:35

	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	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 00:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26177	05/24/22 11:57	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26156	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 18:01	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 20:42	СН	XEN MID

Client Sample ID: FS04 Date Collected: 05/19/22 12:55 Date Received: 05/20/22 11:35

	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	25990	05/23/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			26082	05/24/22 00:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26177	05/24/22 11:57	SM	XEN MID

Eurofins Carlsbad

Matrix: Solid

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Lab Sample ID: 890-2329-4

Lab Sample ID: 890-2329-3

Project/Site: NORTH BRUSHY 35-2H

Job ID: 890-2329-1 SDG: 03A1987005

Lab Sample ID: 890-2329-4 Matrix: Solid

Lab Sample ID: 890-2329-5

Matrix: Solid

Client Sample ID: FS04 Date Collected: 05/19/22 12:55 Date Received: 05/20/22 11:35

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			26156	05/24/22 09:49	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26030	05/23/22 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26020	05/23/22 18:23	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26108	05/23/22 16:45	SC	XEN MID
Soluble	Analysis	300.0		1			26223	05/25/22 21:05	СН	XEN MID

Client Sample ID: FS18 Date Collected: 05/19/22 13:00 Date Received: 05/20/22 11:35

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Туре Run Factor Analyst Lab 25990 Prep 5035 Total/NA 5.03 g 5 mL 05/23/22 13:00 MR XEN MID Total/NA Analysis 8021B 26082 05/24/22 01:21 MR XEN MID 1 Total/NA Total BTEX 26177 XEN MID Analysis 1 05/24/22 11:57 SM Total/NA Analysis 8015 NM 26156 05/24/22 09:49 SM XEN MID 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 26030 05/23/22 08:26 DM XEN MID Total/NA Analysis 8015B NM 26020 05/23/22 18:44 SM XEN MID 1 Soluble Leach **DI Leach** 5 g 50 mL 26108 05/23/22 16:45 SC XEN MID Soluble Analysis 300.0 26223 05/25/22 21:12 СН XEN MID 1

Laboratory References:

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

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		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: NORTH Bl	RUSHY 35-2H			Job ID: 890-2329-1 SDG: 03A1987005	2
Laboratory: Eurofi Unless otherwise noted, all an		ry were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas The following analytes a	are included in this repo	NELAP ort, but the laboratory is not certif	T104704400-21-22 fied by the governing authority. This list ma	06-30-22 ay include analytes for which	5
the agency does not off Analysis Method	fer certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13

Eurofins Carlsbad

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Job ID: 890-2329-1 SDG: 03A1987005

> Laboratory XEN MID XEN MID

Project/Site: N	NORTH BRUSHY 35-2H	
Method	Method Description	Protocol
8021B	Volatile Organic Compounds (GC)	SW846
Total BTEX	Total BTEX Calculation	TAL SOP
0045 114		011/01/0

8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

Client: Ensolum

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Client: Ensolum Project/Site: NORTH BRUSHY 35-2H Job ID: 890-2329-1 SDG: 03A1987005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-2329-1	FS01	Solid	05/19/22 10:30	05/20/22 11:35	4	
390-2329-2	FS02	Solid	05/19/22 12:45	05/20/22 11:35	4	
390-2329-3	FS03	Solid	05/19/22 12:50	05/20/22 11:35	4.5	5
390-2329-4	FS04	Solid	05/19/22 12:55	05/20/22 11:35	4 - 4.5	
390-2329-5	FS18	Solid	05/19/22 13:00	05/20/22 11:35	3.5	
						8
						9
						12
						13
						1

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Released to Imaging: 5/23/2023 8:29:46 AM

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

			EL Ta: Hobb:	s, NM (575) 39	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	com Page 1 of 1
	Anna Rupre		Bill to: (if different)		Jim Raley	*	Work Ord	Work Order Comments
	13		Company Name:		XAM	-	Program: UST/PST PRP	Brownfields RRC Superfund
	3122 National Parks Hwy	Parks Hu		S S		Buena Vista Dr.	State of Project:	
e ZIP:	Carlsbard, NM 88220	1 8822¢		S	Carlsbad, NM	NM 88228	Reporting: Level II	PST/UST TRRP Level IV
	575-200-6754	54	Email: obyers	Renso	ensolum.com	w	Deliverables: EDD	ADaPT Other:
Project Name:	March Brushu	35-2H	Turn Around			ANALYSIS REQUEST	ST	Preservative Codes
ber:	1		Routine Kush	Pres. Code				None: NO DI Water: H ₂ O
Project Location:	Eddy Caunty,	N.M. Due [Due Date:					ol
Sampler's Name:			TAT starts the day received by the lab, if received by 4:30pm		(१			HCL: HC HNO 3: HN H,S0 2: H NaOH: Na
RECEIPT	Temp Blank:	Yes No We	Wet Ice:		11-			
Samples Received Intact:	-	eter		eme	224			NaHSO 4: NABIS
Cooler Custody Seals:	Yes No	Correction Factor:	1-0-	Pai	3 4			Na 25 203: NaSO 3
pole Custody Seals:		Temperature Reading:	ling: 1. 6	Q.O	103	890-2329 Chain of Custody	ristody	Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	-		r(e		_	NaOH+Ascorbic Acid: SAPC
Sample Identification	cation Matrix	Date Sampled	Time Depth Grab/ Sampled Comp	# of Cont	(14) (318) (164)			Sample Comments
ESCI	S	5/2/22 10/30	30 4' Comp	X - c	XX			Incident 1D:
FS&2			4'		XX			+845 MIHIDZWON
FS&3		1250	Se 4.5'	× -	××			
FSRH		1255	5 4-4.5'	× -	××			
FSIB	>	131	1300 3.5' V	4	XX			
					~			
					N/			
					B			
Total 200.7 / 6010 rcle Method(s) an	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		A 13PPM Texas 11 AI S TCLP / SPLP 6010 : 8RCRA	AI Sb As CRA Sb A	b As Ba Be B Cd Sb As Ba Be Cd C	8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Se Ag Hg:	SiO ₂ Na Sr Tl Sn U V Zn 1631/245.1/7470/7471
e: Signature of this docum vice. Eurofins Xenco will L rofins Xenco. A minimum	tent and relinquishment of samp we liable only for the cost of samp charge of \$85.00 will be applied t	les constitutes a valid pur sies and shall not assume to each project and a cha	rchase order from client compan any responsibility for any losses arge of \$5 for each sample subm	ly to Eurofins Xe or expenses inc itted to Eurofins	nco, its affiliates and : urred by the client if s Xenco, but not analy	Notice: Signature of this force ment 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 supersons incurred by the client if such losses are due to circumstances beyond the control of service. Standard St	s and conditions ond the control previously negotlated.	
Relinquished by: (Signature)	Signature)	Received by: (Signature)	gnature)	Dat	Date/Time	Relinquished by: (Signature)	re) Received by: (Signature)	ature) Date/Time
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5/26/2022

Eurofins Carlsbad 5

Chain of Custody Record

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ed longer than 1 month)	may be assessed if samples are retained longer	if sam	essed	be ass	e may	Sample Disposal (A fee	posal	le Dis	ampl	~					Possible Hazard Identification
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Page: Page 1 of 1		rigin XICO	State of Origin New Mexico	Zş	В	nsus.c	eurofi	r@et.	rame	E-Mail Jessica Kramer@et.eurofinsus.cc	Je			Phone:	Shipping/Receiving
COC No ⁻ 890-764 1	(s)	Carrier Tracking No(s)	arrier Tra	្ត្				ŭ	lessic	Lab PM Kramer Jessica	2 5			Sampler	Client Information (Sub Contract Lab)
America										Rec	Citalli of Custody Record		Cita		Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199
seurofins								•) [] , ,		· >f)-) > >		1089 N Canal St.

Relinquished by

Date/Time

Company

Received by

Cooler Temperature(s) °C and Other Remarks

9

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Ver 06/08/2021

Date/Time

Company

Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No

14

Job Number: 890-2329-1 SDG Number: 03A1987005

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2329 List Number: 1 Creator: Olivas, Nathaniel

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

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2329 List Number: 2 Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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

14

Job Number: 890-2329-1 SDG Number: 03A1987005

List Source: Eurofins Midland List Creation: 05/23/22 08:18 AM



APPENDIX F

Email Correspondence

Released to Imaging: 5/23/2023 8:29:46 AM

Anna Byers

From: Sent:	Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us> Tuesday, April 19, 2022 7:15 AM</robert.hamlet@state.nm.us>
То:	Anna Byers
Cc:	Raley, Jim; Devon-Team; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Activity Update for Week of April 18, 2022

[**EXTERNAL EMAIL**]

Anna,

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.

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



From: Anna Byers <abyers@ensolum.com>
Sent: Monday, April 18, 2022 11:30 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Raley, Jim <Jim.Raley@dvn.com>; Devon-Team <Devon-Team@ensolum.com>
Subject: [EXTERNAL] WPX Site Activity Update for Week of April 18, 2022

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

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between April 20-22, 2022:

Ensolum

Site: North Brushy Draw Federal 35 #002H API: 30-015-40006 Incident Number: NRM2014147987

Site: North Brushy Draw Federal 35 #009H API: 30-015-42220

Incident Number: NRM2020657799

Thank you,



From: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Sent: Monday, April 18, 2022 9:54 AM
To: Joseph Hernandez <<u>ihernandez@ensolum.com</u>>
Cc: Raley, Jim <<u>Jim.Raley@dvn.com</u>>; Devon-Team <<u>Devon-Team@ensolum.com</u>>; Bratcher, Mike, EMNRD
<<u>mike.bratcher@state.nm.us</u>>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>
Subject: RE: [EXTERNAL] WPX Site Activity Update for Week of April 18, 2022

[**EXTERNAL EMAIL**]

Joseph,

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.

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



From: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>
Sent: Monday, April 18, 2022 9:02 AM
To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Subject: Fw: [EXTERNAL] WPX Site Activity Update for Week of April 18, 2022

From: Joseph Hernandez <<u>ihernandez@ensolum.com</u>>
Sent: Friday, April 15, 2022 2:27 PM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>
Cc: Raley, Jim <<u>Jim.Raley@dvn.com</u>>; Devon-Team <<u>Devon-Team@ensolum.com</u>>
Subject: [EXTERNAL] WPX Site Activity Update for Week of April 18, 2022

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

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following site between April 18-22, 2022:

Ensolum

Site: Pecos Federal #001Y API: 30-015-24875 Incident Number: nAPP2208846424



Joseph Hernandez Senior Geologist 281-702-2329 Ensolum, LLC

From:	Hamlet, Robert, EMNRD	
To:	Anna Byers	
Cc:	Jim Raley; Joseph Hernandez; Gilbert Moreno; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD	
Subject:	RE: [EXTERNAL] WPX Site Activity Update for Week of April 25, 2022	
Date:	Monday, April 25, 2022 9:55:15 AM	

[**EXTERNAL EMAIL**]

Anna,

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.

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



From: Anna Byers <abyers@ensolum.com>
Sent: Friday, April 22, 2022 4:07 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD
<mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui,
Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: Jim Raley <jim.raley@dvn.com>; Joseph Hernandez <jhernandez@ensolum.com>; Gilbert
Moreno <gmoreno@ensolum.com>
Subject: [EXTERNAL] WPX Site Activity Update for Week of April 25, 2022

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

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between April 25-29, 2022:

Ensolum

Site: North Brushy Draw Federal 35 #002H API: 30-015-40006 Incident Number: NRM2014147987 Site: North Brushy Draw Federal 35 #009H API: 30-015-42220 Incident Number: NRM2020657799

Thank you,

Anna Byers Project Geologist 575-200-6754 Ensolum, LLC

From:	Hamlet, Robert, EMNRD
To:	Anna Byers
Cc:	Jim Raley; Joseph Hernandez; Ben Belill; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Activity Update for Week of May 2, 2022
Date:	Thursday, April 28, 2022 10:00:33 AM
Attachments:	image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Anna,

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.

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



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, April 28, 2022 9:15 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: Fw: [EXTERNAL] WPX Site Activity Update for Week of May 2, 2022

From: Anna Byers <<u>abyers@ensolum.com</u>>

Sent: Thursday, April 28, 2022 9:09 AM

To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>

Cc: <u>jim.raley@dvn.com</u> <<u>jim.raley@dvn.com</u>>; Joseph Hernandez <<u>jhernandez@ensolum.com</u>>; Ben Belill <<u>bbelill@ensolum.com</u>>

Subject: [EXTERNAL] WPX Site Activity Update for Week of May 2, 2022

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

Good morning,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between May 2-6, 2022:

<u>Ensolum</u>

Site: North Brushy Draw Federal 35 #002H

API: 30-015-40006

Incident Number: NRM2014147987

Site: North Brushy Draw Federal 35 #009H

API: 30-015-42220

Incident Number: NRM2020657799

Site: North Brushy Draw Federal 35#012H

API: 30-015-43603

Incident Number: nAPP2208844411

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident Number: nAPP2123361366

Thank you,



From:	Joseph Hernandez	
To:	ocd.enviro@state.nm.us	
Cc:	<u>Raley, Jim; Anna Byers; Ben Belill</u>	
Subject:	RE: WPX Site Activity Update for Week of May 16th, 2022	
Date:	Monday, May 16, 2022 1:35:37 PM	
Attachments:	image001.png	
	image002.png	
	image003.png	
	image004.png	

Good afternoon,

WPX also anticipates conducting final soil sampling activities at the following site this week:

Site: Ross Draw Unit 34 API: 30-015-41578 Incident Numbers: nAPP2107554265, NAB1736055339 and NAB1528240224

Thank you,

Joseph Hernandez Senior Geologist 281-702-2329 Ensolum, LLC

From: Joseph Hernandez
Sent: Friday, May 13, 2022 9:20 AM
To: ocd.enviro@state.nm.us
Cc: Raley, Jim <Jim.Raley@dvn.com>; Anna Byers <abyers@ensolum.com>; Ben Belill
<bbelill@ensolum.com>
Subject: WPX Site Activity Update for Week of May 16th, 2022

Good morning,

WPX anticipates conducting final confirmation soil sampling activities at the following sites between May $18^{\text{th}} - 20^{\text{th}}$, 2022.

Ensolum

Site: North Brushy Draw Federal 35 #002H API: 30-015-40006 Incident Number: NRM2014147987

Site: Pecos Federal #001Y API: 30-015-24875 Incident Number: nAPP2208846424 Thank you,



Joseph Hernandez Senior Geologist 281-702-2329 Ensolum, LLC in f

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	179217
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
rhamlet	WPX's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. Ensolum and WPX do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is "SW02". The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a federal site and will require like approval from the BLM.	5/23/2023

CONDITIONS

Page 314 of 314

Action 179217