Mexico Page 1 of 95

Incident ID	NAPP2226646920
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coaccordance area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.2	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: _Environmental Coordinator
Signature: Satt Sur	Date:12/09/2022
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only Jocelyn Harimon Received by:	12/09/2022 Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Robert Hamlet	Date: 3/13/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2226646920
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Facility ID	
Application ID	

Release Notification

Responsible Party

			-	·		
Responsible l	Party XTC) Energy		OGRID 5	5380	
Contact Nam	e Garrett Gr	reen		Contact Te	elephone 575-200-07	29
Contact emai	l garrett.gre	en@exxonmobil.c	om	Incident #	(assigned by OCD)	
			reet, Carlsbad, Nev	w Mexico, 88220		
			Location	of Release So	ource	
Latitude 32.	01942			Longitude _	-103.94261	
Latitude			(NAD 83 in dec	imal degrees to 5 decim	nal places)	
Site Name Ros	ee Draw 253	<u> </u>		Site Type	Central Tank Batter	V
Date Release	Discovered	09/11/2022		API# (if app.		,
		03/11/2022				
Unit Letter	Section	Township	Range	Coun	ty	
D	25	26S	29E	Eddy	у	
Surface Owner				Volume of F	Release justification for the volui	nes provided below)
Crude Oil		Volume Release			Volume Recovered	
Produced	Water	Volume Release	ed (bbls)		Volume Recovered	d (bbls)
			tion of total dissolv water >10,000 mg/		☐ Yes ☐ No	
Condensar	te	Volume Release	d (bbls)		Volume Recovered	d (bbls)
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered	d (Mcf)
Other (des	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight R	ecovered (provide units)
Cause of Rele	ease A malfi itself w purpose	un no injuries and	ent fluid out the hi no damage to equ	gh pressure flare lii ipment. A third-par	ne, which ignited on rty contractor has be	the pad surface. Fire extinguished en retained for remediation

Received by OCD: 12/9/2022 12:38:21PPM State of New Mexico
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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	A release that results in a fire or is the resu	lt of a fire.
19.15.29.7(A) NMAC?		
🗶 Yes 🗌 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
Yes, by Melanie Collins to	o ocd.enviro@state.nm.us, Mike Bratcher, a	nd Robert Hamlet on 09/12/2022 via email.
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
	*	ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	•
	d above have <u>not</u> been undertaken, explain v	
NA	a doove have <u>not</u> been undertaken, explain	,
IVA		
Por 10 15 20 8 P. (4) NIM	[AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
		ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
	Pannington	Environmental Manager
Printed Name: Shelby G.	reminigion	Title: Environmental Manager
Signature:	elly tempo	Date: 9/23/22
email: shelby.g.penningto	on@exxonmobil.com	Telephone: 281-723-9853
email:		Telephone:
OCD Only		
Received by: Jocely	n Harimon	Date: 09/23/2022

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Incident ID	NAPP2226646920	
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Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler 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		

Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 	

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

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Application ID

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

Printed Name: _Garrett Green ______ Title: _Environmental Coordinator ______ Date: ______12/09/2022 _____ email: _garrett.green@exxonmobil.com _____ Telephone: _______575-200-0729 ______

OCD Only

Received by: _____ Jocelyn Harimon ______ Date: ______12/09/2022 ______

ate of New Mexico

Incident ID	NAPP2226646920
District RP	
Facility ID	
Application ID	

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD Distributed 2 days prior to liner inspection)	rict office
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to C and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases 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 human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantia restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: _Garrett Green Title: _Environmental Coordinator Date:12/09/2022 Telephone:575-200-0729 Telephone:575-200-0729 Telephone:575-200-0729 Telephone:575-200-0729 Telephone:575-200-0729 Telephone:575-200-0729 Telephone:	s which ility water, ully
OCD Only Jocelyn Harimon 12/09/2022	
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately inversemediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the reparty of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Date:	
Printed Name: Title:	



December 9, 2022

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

Re: Closure Request Ross Draw 2531

Incident Number NAPP2226646920

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment and soil sampling activities at the Ross Draw 2531 (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil after a flare fire at the Site. Based on site assessment activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2226646920.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 25, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.01942°N, 103.94261°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 11, 2022, a valve malfunction caused fluids to release through the high-pressure flare line causing approximately 0.6 barrels (bbls) of crude oil to exit the flare and ignite. There were no fluids to recover, and the fire extinguished itself. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on September 12, 2022 and submitted a Release Notification Form C-141 (Form C-141) on September 23, 2022. The release was assigned Incident Number NAPP2226646920.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On July 28, 2021, a soil boring (C-4561) was drilled within a ½ mile northeast of the Site and was advanced to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activites. The borehole was left open for over 72 hours to allow for potential

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc Closure Request Ross Draw 2531

slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 768 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On November 11, 2022, site assessment and delineation activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ensolum personnel advanced two potholes (PH01 and PH02) by use of heavy equipment to assess the vertical extent of the release. Two discrete delineation soil samples were collected from each pothole at depths of 0.5 feet bgs and 1-foot bgs. Additionaly, Ensolum personnel collected four discrete delineation soil samples (SS01 through SS04) at a depth of 0.5 feet bgs to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the delineation soil samples were logged on lithologic soil sampling logs, which are included in Appendix B. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Following the delineation activities, surface scraping by use of heavy equipment and hand tools was completed on the stained area within the release extent. The soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico. Photographic documentation is included in Appendix C.

ENSOLUM

XTO Energy, Inc Closure Request Ross Draw 2531

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples (PH01, PH02, and SS01 through SS04) indicated COC concentrations are in compliance with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil from the September 11, 2022 release of crude oil and flare fire. Laboratory analytical results for all delineation soil samples indicated COC concentrations were in compliance with the Site Closure Criteria.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on laboratory analytical results compliant with Closure Criteria, no further remediation was required. As such, XTO respectfully requests closure for Incident Number NAPP2226646920.

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

Sincerely, **Ensolum, LLC**

Dr.J. Delill

Benjamin J. Belill Project Geologist Ashley L. Ager, P.G. Program Director

cc: Garrett Green, XTO

Shelby Pennington, XTO Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

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

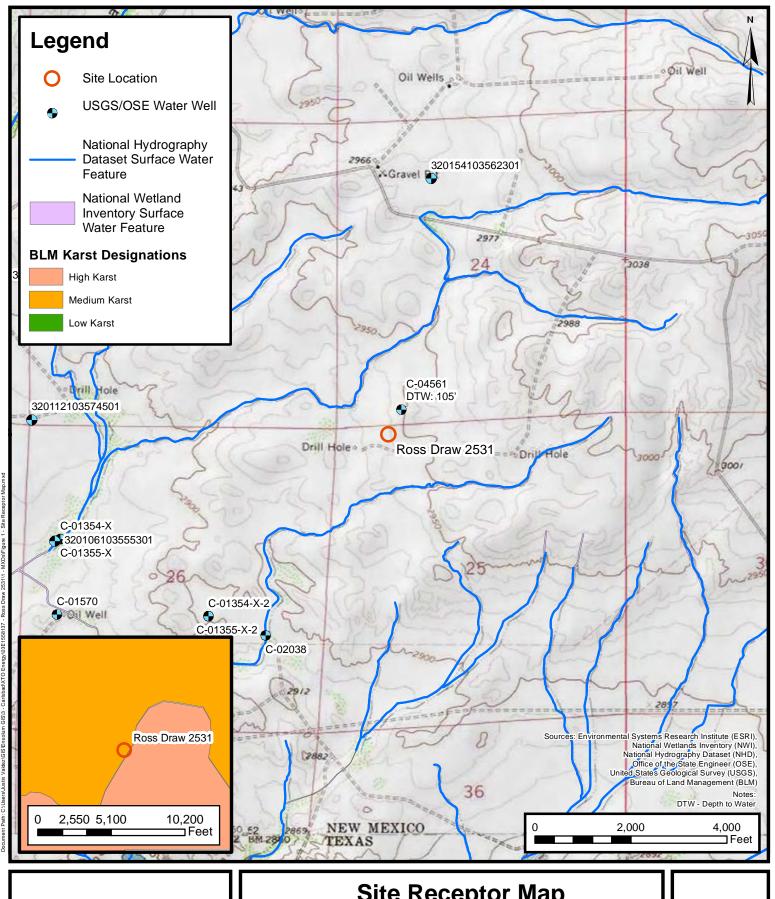
Appendix C Photographic Log

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

Appendix E NMOCD Notifications



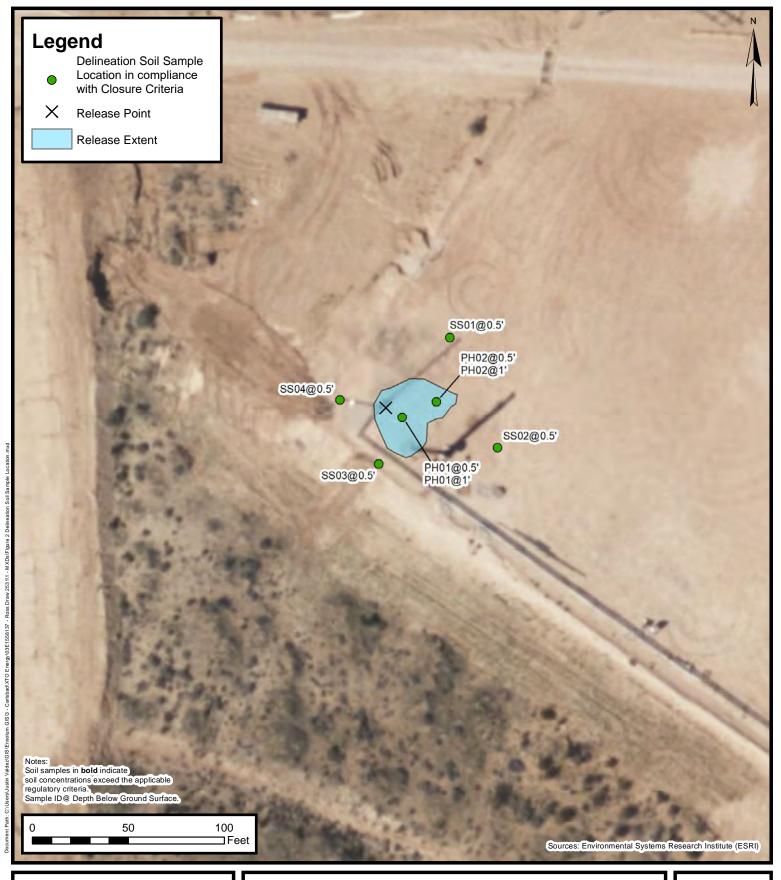
FIGURES





Site Receptor Map

Ross Draw 2531 XTO Energy, Inc Unit D Sec 25 T26S R29E Eddy County, New Mexico Incident Number: NAPP2226646920 **FIGURE**





Delineation Soil Sample Locations

Ross Draw 2531 XTO Energy, Inc Unit D Sec 25 T26S R29E Eddy County, New Mexico Incident Number: NAPP2226646920 **FIGURE**

2



TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Ross Draw 2531 XTO Energy, Inc **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table 1 Closure Criteria (NMAC 19.15.29		NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000	
	Delineation Soil Samples										
SS01	11/22/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	50.6	
SS02	11/22/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	23.7	
SS03	11/22/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	45.7	
SS04	11/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	48.9	
PH01	11/22/2022	0.5	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	19.0	
PH01A	11/22/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	42.8	
PH02	11/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	136	
PH02A	11/22/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	129	

Notes:

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

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



0SE 011 AUG 17 2021 PG:11

NO	OSE POD NO POD1 (B	-	.)		WELL TAG ID NO. n/a			OSE FILE NO(S C-4561	S).			-	
GENERAL AND WELL LOCATION	WELL OWN			· ·	<u> </u>			PHONE (OPTIO	ONAL)				
77	WELL OWN	ER MAILING	ADDRESS			-		CITY	····	STATE		ZIP	
WEL	6401 Holid							Midland		TX	79707		
身	WELL		DE	GREES	MINUTES	SECON	DS						
LA	LOCATIO	ON LA	ITTUDE	32	1	14.1	17 _N	* ACCURACY	REQUIRED: ONE TENT	TH OF A	SECOND		
VERA	(FROM GE	· (25	NGITUDE	103	56	30.		* DATUM REC	QUIRED: WGS 84				
1. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE SE SW Sec. 31T23S R33E												
	LICENSE NO).	NAME OF LICENSED	DRILLER					NAME OF WELL DR	LLING C	COMPANY	-	
:	124				Jackie D. Atkins						g Associates, I	nc.	
	DRILLING S 07/28/		07/28/2021		OMPLETED WELL (Fi rary well materia			LE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT) 105 n/a					
z	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE SHALLOW (UNCONFINED)					STATIC WATER LEV	EL IN CO n/a		LL (FT)	
ATIO.	DRILLING F	LUID:	☐ AIR	MUD ADDITIVES – SPECIFY:									
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY			НАММЕ	R CABLE T	OOL	✓ OTHE	R – SPECIFY:	Hollo	w Sten	n Auger		
	DEPTH (feet bgl)		BORE HOLE	CASING	MATERIAL AND	O/OR	CA	SING	CASING	CAS	ING WALL	SLOT	
وَ	FROM	то	DIAM	<i>c</i> , ,	GRADE	.		ECTION	INSIDE DIAM.		ICKNESS	SIZE	
l Si			(inches)		each casing string, sections of screen)			YPE ing diameter)	(inches)		(inch e s)	(inches)	
C Y	0	105	±6.5	Boring- HSA			(ada voup)						
وِّ													
DRI													
2.													
			3										
				ļ									
										<u> </u>			
<u> </u>				<u> </u>						<u> </u>		<u> </u>	
	DEPTH	(feet bgl)	BORE HOLE	ŧ	IST ANNULAR SI				AMOUNT		METHO		
₹	FROM	TO	DIAM. (inches)	GR.A	VEL PACK SIZE	-RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	TENT	
MA													
ANNULAR MATERIAL													
AL.													
Y													
<u>ښ</u>					- · · · · · · · · · · · · · · · · · · ·	_							
		L						_					
FOR	OSE INTER	NAL USE			. ,	- CO		WR-2	0 WELL RECORD	& LOG	(Version 06/3	0/17)	

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

	DEPTH (f	eet bgl)		COLOR AND TYPE OF MA	TERIAL ENCOUNTERED .		WATER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CA	VITIES OR FRACTURE ZOI	NES	BEARING?	YIELD FOR WATER-
	PROM	10	(200)	(attach supplemental sheet	s to fully describe all units)		(YES/NO)	BEARING ZONES (gpm)
	0	5	5	Caliche, poor- moderate co	nsolidation, Off white-tan		Y /N	
	5	10	5	Sand, fine grained, poorly graded,	with caliche gravel, Reddish Br	own	Y ✓N	
	10	25	15	Clayey Sand, fine grained, po	orly graded, Reddish Brown		Y ✓N	
	25	30	5	Silty Sand, fine grained, poorly	graded, Reddish Brown , Dry		Y ✓N	
	30	45	15	Gravelly Silty, some gypsum,	graded, Reddish Brown , Dry		Y /N	
17	45	60	15	Siltstone, poorly cement	ed, Reddish Brown, Dry		Y /N	
4. HYDROGEOLOGIC LOG OF WELL	60	105	45	Claystone, Low plasticity, cohesive, som	e gypsum, Reddish Brown-Da	rk , moist	Y ✓N	
OF							Y N	
507							Y N	
121							Y N	
707				· · · · · · · · · · · · · · · · · · ·			Y N	
SEO						·	Y N	
RO							Y N	
HA							Y N	
4							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:		TOT	AL ESTIMATED	
	PUMI	P []A	IR LIFT	BAILER OTHER - SPECIFY	? :	WEI	LL YIELD (gpm):	0.00
		TROT	DECITTS ATT	ACH A COPY OF DATA COLLECTED	DUDING WELL TESTING	NCLUDI	NG DISCUADGE N	(ETUOD
NO	WELL TES			IE, AND A TABLE SHOWING DISCH				
VISION	MISCELLA	NEOUS INF	ORMATION: T	mporary well materials removed and	I the easil having heal-Clied	الساء عاشا	1 and the are from that	al danéh éa éan
PER			16	i delow ground surface, then hydrau	ea denionite emps from ten	feet belo	w ground surface	to surface.
us:			L	gs adapted from WSP on-site geolog	gist.			
TEST; RIG SUPERV								
EST	PRINT NAM	(E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE	SUPERVISION OF WELL CO	ONSTRU	CTION OTHER TH	AN LICENSEE:
5. T			lo Trevino, Car	• •				
	Diano Esars		TO TICVINO, Cui	VION 1 TUIL				
ഥ				ES THAT, TO THE BEST OF HIS OR ESCRIBED HOLE AND THAT HE OR				
				DAYS AFTER COMPLETION OF W		L RECOR	WITH THE STA	IL ENGINEER
NA.	~	.						
6. SIGNATURE	Jack A	tkins		Jackie D. Atkins			08/16/2021	:
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME			DATE	
FOE	R OSE INTER	NAI IICE			WD-20 V	מע ווקע	CORD & LOG (Ver	sion 06/30/2017
	E NO.	-45	61	POD NO.	TRN NO		1043	51011 VOI JUI ZUI I)
LO	CATION 7	45-	29E-2	4433	WELL TAG ID N	O		PAGE 2 OF 2



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 11/22/22
1	7							Site Name: Ross Draw 2531	Date: 11/22/22
			N	3	OL	J	V	Incident Number: NAPP22266469	220
								Job Number: 03E1558137	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Kase Parker	Method: Backhoe
Coord	inates: 32							Hole Diameter: N/A	Total Depth: 1'
					ith HACH Ch	loride Test S		PID for chloride and vapor, respec	· ·
								actors included.	,
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	·
M	<173	0.3	N N	PH01 PH01A	0.5 _ - - - - -	0 - - 0.5 - - 1	CCHE	0-1', CALICHE, moist, brown some fine grained sand, no odor, charred surface 0.25'-1', no stain.	poorly consolidated,
							TD	Total depth at 1-foot below	y ground surface.

								Sample Name: PH02	Date: 11/22/22
~								Site Name: Ross Draw 2531	Date. 11/22/22
			N	S	U I	U	M	Incident Number: NAPP22266469	20
1								Job Number: 03E1558137	20
		LITHO	OG!	r / sou s	SAMPLING	LOG		Logged By: Kase Parker	Method: Backhoe
Coord	linates: 32				AWIPLING	LUG		Hole Diameter: N/A	Total Depth: 1'
					ith HACH Ch	Inride Test 9		PID for chloride and vapor, respec	·
			-					factors included.	tivery. emoriae test
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	·
M	<173	0.1	Z Z	PH02 PH02A	0.5 _ - - - - 1	0 - - - - - - - 1	CCHE	0-1', CALICHE, moist, brown some fine grained sand, no odor, charred surface 0.25'-1', no stain.	poorly consolidated,
							TD	Total depth at 1-foot below	ground surface.



APPENDIX C

Photographic Log



Photographic Log
XTO Energy, Inc
Ross Draw 2531
Incident Number NAPP2226646920



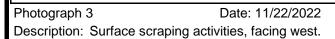


Photograph 1 Date: 11/14/2022

Description: Site assessment activities, release extent area facing south.

Photograph 2 Date: 11/22/2022 Description: Delineation activities, PH01 area facing north.







Photograph 4 Date: 11/22/2022 Description: Surface scraping activities, facing north.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/5/2022 1:07:50 PM

JOB DESCRIPTION

Ross Draw 2531 SDG NUMBER 03E1558137

JOB NUMBER

890-3551-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 12/5/2022 1:07:50 PM

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

Client: Ensolum Laboratory Job ID: 890-3551-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

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Definitions/Glossary

Job ID: 890-3551-1 Client: Ensolum Project/Site: Ross Draw 2531

SDG: 03E1558137

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit

PQL **PRES** Presumptive

QC

Quality Control RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-3551-1 Client: Ensolum Project/Site: Ross Draw 2531

SDG: 03E1558137

Job ID: 890-3551-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3551-1

Receipt

The samples were received on 11/22/2022 3:00 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 21.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3551-1), SS02 (890-3551-2), SS03 (890-3551-3) and SS04 (890-3551-4).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40544 and analytical batch 880-40553 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40544/2-A) and (LCSD 880-40544/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-3551-1), SS02 (890-3551-2), SS03 (890-3551-3) and SS04 (890-3551-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-40386 and analytical batch 880-40550 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: SS01 (890-3551-1), SS02 (890-3551-2) and SS03 (890-3551-3).

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

Matrix: Solid

Lab Sample ID: 890-3551-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3551-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: SS01

Date Collected: 11/22/22 12:00 Date Received: 11/22/22 15:00

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 00:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 00:23	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:59	12/05/22 00:23	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 00:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:59	12/05/22 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			11/29/22 09:59	12/05/22 00:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130			11/29/22 09:59	12/05/22 00:23	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/05/22 13:56	1
Method: SW846 8015 NM - Diese	•		•					
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/30/22 13:52	Dil Fac
Analyte	Result <50.0	Qualifier U	50.0		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 sel Range Orga	Qualifier U	50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg		<u> </u>	11/30/22 13:52	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	11/30/22 13:52 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 11/29/22 08:43	11/30/22 13:52 Analyzed 11/30/22 00:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:43 11/29/22 08:43	Analyzed 11/30/22 00:23 11/30/22 00:23	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:43 11/29/22 08:43	Analyzed 11/30/22 00:23 11/30/22 00:23 11/30/22 00:23	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:43 11/29/22 08:43 11/29/22 08:43 Prepared	Analyzed 11/30/22 13:52 Analyzed 11/30/22 00:23 11/30/22 00:23 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier S1- S1-	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:43 11/29/22 08:43 11/29/22 08:43 Prepared 11/29/22 08:43	Analyzed 11/30/22 00:23 11/30/22 00:23 11/30/22 00:23 Analyzed 11/30/22 00:23	1 Dil Fac 1 1 1 Dil Fac 2 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier S1- S1-	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:43 11/29/22 08:43 11/29/22 08:43 Prepared 11/29/22 08:43	Analyzed 11/30/22 00:23 11/30/22 00:23 11/30/22 00:23 Analyzed 11/30/22 00:23	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-3551-2

Date Collected: 11/22/22 12:05 Date Received: 11/22/22 15:00

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/05/22 00:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/05/22 00:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/05/22 00:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/29/22 09:59	12/05/22 00:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/05/22 00:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/29/22 09:59	12/05/22 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			11/29/22 09:59	12/05/22 00:43	1

Eurofins Carlsbad

Matrix: Solid

5

3

6

8

10

12

13

Matrix: Solid

Lab Sample ID: 890-3551-2

Job ID: 890-3551-1

Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

Client Sample ID: SS02

Date Collected: 11/22/22 12:05 Date Received: 11/22/22 15:00

Sample Depth: 0.5

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

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	11/29/22 09:59	12/05/22 00:43	1

Method: TAL SOP	Total RTFX - Total	RTFX Calculation
Mictiliou. IAL OOI	TOTAL DIEX - TOTAL	DIEA Galcalation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/05/22 13:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/30/22 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/29/22 08:43	11/30/22 00:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/29/22 08:43	11/30/22 00:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/22 08:43	11/30/22 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	10	S1-	70 - 130	11/29/22 08:	11/30/22 00:47	1
o-Terphenyl	0.4	S1-	70 - 130	11/29/22 08:	11/30/22 00:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		4.99	mg/Kg			11/29/22 11:21	1

Client Sample ID: SS03 Lab Sample ID: 890-3551-3

Date Collected: 11/22/22 12:10 Date Received: 11/22/22 15:00

Sample Depth: 0.5

Method: SW846 8021B - Vola	itile Organic Compounds (GC)
----------------------------	------------------------------

incurred Circle Cozin	no organio comp	Julius (Ju	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:03	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:03	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:59	12/05/22 01:03	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:59	12/05/22 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			11/29/22 09:59	12/05/22 01:03	1
1 4 Diffuorabanzana (Surr)	00		70 120			11/20/22 00:50	12/05/22 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/29/22 09:59	12/05/22 01:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/29/22 09:59	12/05/22 01:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/05/22 13:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/22 13:52	1

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-3551-1

Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

Client Sample ID: SS03 Date Collected: 11/22/22 12:10 Lab Sample ID: 890-3551-3 Matrix: Solid

Date Received: 11/22/22 15:00 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/29/22 08:43	11/30/22 01:13	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/29/22 08:43	11/30/22 01:13	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/22 08:43	11/30/22 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	9	S1-	70 - 130			11/29/22 08:43	11/30/22 01:13	1
o-Terphenyl	0.4	S1-	70 - 130			11/29/22 08:43	11/30/22 01:13	1
- Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble					
					_			B.: E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-3551-4 Date Collected: 11/22/22 12:15

Date Received: 11/22/22 15:00

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:24	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:59	12/05/22 01:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:59	12/05/22 01:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:59	12/05/22 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			11/29/22 09:59	12/05/22 01:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/29/22 09:59	12/05/22 01:24	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/05/22 13:56	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/30/22 13:52	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/29/22 08:43	11/30/22 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/29/22 08:43	11/30/22 01:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/22 08:43	11/30/22 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		S1-	70 - 130			11/29/22 08:43	11/30/22 01:37	1
o-Terphenyl	18	S1-	70 - 130			11/29/22 08:43	11/30/22 01:37	1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3551-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: SS04 Lab Sample ID: 890-3551-4

Date Collected: 11/22/22 12:15

Date Received: 11/22/22 15:00 Sample Depth: 0.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacChloride48.94.97mg/Kg11/29/22 11:371

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum Job ID: 890-3551-1 Project/Site: Ross Draw 2531 SDG: 03E1558137

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DEDZ4	Percent Surrogate Recovery (Acceptance Limits)
lak Oamala ID	Oliant Canada ID	BFB1 (70-130)	DFBZ1 (70-130)	
Lab Sample ID	Client Sample ID	<u> </u>		
880-21910-A-1-E MS	Matrix Spike	95	113	
880-21910-A-1-F MSD	Matrix Spike Duplicate	44 S1-	116	
890-3551-1	SS01	99	90	
890-3551-2	SS02	105	100	
890-3551-3	SS03	104	98	
890-3551-4	SS04	99	92	
LCS 880-40587/1-A	Lab Control Sample	101	116	
LCSD 880-40587/2-A	Lab Control Sample Dup	93	115	
MB 880-40587/5-A	Method Blank	84	103	
Surrogate Legend				

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

Prep Type: Total/NA **Matrix: Solid**

_				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-21877-A-1-C MS	Matrix Spike	114	120	
880-21877-A-1-D MSD	Matrix Spike Duplicate	118	120	
890-3551-1	SS01	11 S1-	0.6 S1-	
890-3551-2	SS02	10 S1-	0.4 S1-	
890-3551-3	SS03	9 S1-	0.4 S1-	
890-3551-4	SS04	28 S1-	18 S1-	
LCS 880-40544/2-A	Lab Control Sample	189 S1+	219 S1+	
LCSD 880-40544/3-A	Lab Control Sample Dup	164 S1+	196 S1+	
MB 880-40544/1-A	Method Blank	101	131 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3551-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40587/5-A

Lab Sample ID: LCS 880-40587/1-A

Analysis Batch: 40979

Matrix: Solid

Matrix: Solid

Analysis Batch: 40979

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40587

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/04/22 17:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/04/22 17:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/04/22 17:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:59	12/04/22 17:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:59	12/04/22 17:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:59	12/04/22 17:50	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	70 - 130	11/29/22 09:59	12/04/22 17:50	1
1,4-Difluorobenzene (Surr)	103	70 - 130	11/29/22 09:59	12/04/22 17:50	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40587

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1195 mg/Kg 120 70 - 130 Toluene 0.100 0.1026 mg/Kg 103 70 - 130 0.100 0.09754 Ethylbenzene mg/Kg 98 70 - 130 0.200 0.2005 100 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1000 70 - 130 o-Xylene mg/Kg 100

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 40979

Lab Sample ID: LCSD 880-40587/2-A

Prep Type: Total/NA Prep Batch: 40587

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1138		mg/Kg		114	70 - 130	5	35
Toluene	0.100	0.09494		mg/Kg		95	70 - 130	8	35
Ethylbenzene	0.100	0.09156		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	7	35
o-Xylene	0.100	0.09231		mg/Kg		92	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

Lab Sample ID: 880-21910-A-1-E MS

Matrix: Solid

Analysis Batch: 40979

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

Prep Batch: 40587

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.1051		mg/Kg		105	70 - 130	
Toluene	<0.00201	U	0.0996	0.08540		mg/Kg		86	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-3551-1 SDG: 03E1558137 Project/Site: Ross Draw 2531

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

Lab Sample ID: 880-21910-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 40979

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0996	0.07733		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1566		mg/Kg		79	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.07800		mg/Kg		78	70 - 130	

MS MS

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-21910-A-1-F MSD

Matrix: Solid

Analysis Batch: 40979

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

Client Sample ID: Lab Control Sample

Prep Batch: 40587

Prep Batch: 40587

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.09691		mg/Kg		98	70 - 130	8	35
Toluene	<0.00201	U	0.0990	0.08052		mg/Kg		81	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0990	0.07681		mg/Kg		78	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1562		mg/Kg		79	70 - 130	0	35
o-Xylene	< 0.00201	U	0.0990	0.07702		mg/Kg		78	70 - 130	1	35

MSD MSD

Surrogate		%Recovery	Qualifier	Limits
	4-Bromofluorobenzene (Surr)	44	S1-	70 - 130
	1,4-Difluorobenzene (Surr)	116		70 - 130

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

Lab Sample ID: MB 880-40544/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 40544

Analysis Batch: 40553

MR MR

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/29/22 08:43	11/29/22 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/29/22 08:43	11/29/22 15:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/22 08:43	11/29/22 15:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	11/29/2	2 08:43	11/29/22 15:35	1
o-Terphenyl	131	S1+	70 - 130	11/29/2	2 08:43	11/29/22 15:35	1

Lab Sample ID: LCS 880-40544/2-A

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 40553 Prep Batch: 40544 LCS LCS Snike

							70.100
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	874.6		mg/Kg		87	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1088		mg/Kg		109	70 - 130
C10-C28)							

Job ID: 890-3551-1 Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

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

LCS LCS

Lab Sample ID: LCS 880-40544/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 40553

Prep Type: Total/NA

Prep Batch: 40544

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 189 S1+ 70 - 130 o-Terphenyl 219 S1+ 70 - 130

Lab Sample ID: LCSD 880-40544/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 40553

Prep Type: Total/NA

Prep Batch: 40544

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1073 107 70 - 13020 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 981.8 mg/Kg 98 70 - 13010 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 164 S1+ 70 - 130 1-Chlorooctane 196 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 880-21877-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 40553

Prep Type: Total/NA

Prep Batch: 40544

Sample Sample MS MS Spike Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 999 1127 mg/Kg 110 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 152 999 1105 mg/Kg 95 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 114 o-Terphenyl 120 70 - 130

Lab Sample ID: 880-21877-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 40553

Prep Type: Total/NA

Prep Batch: 40544 RPD

Sample Sample MSD MSD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 997 1152 mg/Kg 113 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 152 997 1111 mg/Kg 96 70 - 130 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	120		70 - 130

Job ID: 890-3551-1

SDG: 03E1558137

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40386/1-A

Lab Sample ID: LCS 880-40386/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 40550

Project/Site: Ross Draw 2531

Client: Ensolum

Matrix: Solid

Matrix: Solid

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Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/29/22 09:19

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Client Sample ID: SS04

Prep Type: Soluble

Analysis Batch: 40550

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 241.4 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-40386/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 40550

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 242.0 mg/Kg 90 - 110

Lab Sample ID: 890-3551-4 MS **Client Sample ID: SS04 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40550

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Unit %Rec Result Qualifier Limits 299.9 Chloride 48.9 249 101 90 - 110 mg/Kg

Lab Sample ID: 890-3551-4 MSD

Matrix: Solid

Analysis Batch: 40550

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 48.9 300.2 mg/Kg 101 90 - 110 0 20

QC Association Summary

Client: Ensolum Project/Site: Ross Draw 2531 Job ID: 890-3551-1 SDG: 03E1558137

GC VOA

Prep Batch: 40587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Total/NA	Solid	5035	
890-3551-2	SS02	Total/NA	Solid	5035	
890-3551-3	SS03	Total/NA	Solid	5035	
890-3551-4	SS04	Total/NA	Solid	5035	
MB 880-40587/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40587/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40587/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21910-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-21910-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 40979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Total/NA	Solid	8021B	40587
890-3551-2	SS02	Total/NA	Solid	8021B	40587
890-3551-3	SS03	Total/NA	Solid	8021B	40587
890-3551-4	SS04	Total/NA	Solid	8021B	40587
MB 880-40587/5-A	Method Blank	Total/NA	Solid	8021B	40587
LCS 880-40587/1-A	Lab Control Sample	Total/NA	Solid	8021B	40587
LCSD 880-40587/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40587
880-21910-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	40587
880-21910-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40587

Analysis Batch: 41047

Lab Sample ID 890-3551-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-3551-2	SS02	Total/NA	Solid	Total BTEX	
890-3551-3	SS03	Total/NA	Solid	Total BTEX	
890-3551-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 40544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Total/NA	Solid	8015NM Prep	
890-3551-2	SS02	Total/NA	Solid	8015NM Prep	
890-3551-3	SS03	Total/NA	Solid	8015NM Prep	
890-3551-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-40544/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40544/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21877-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21877-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Total/NA	Solid	8015B NM	40544
890-3551-2	SS02	Total/NA	Solid	8015B NM	40544
890-3551-3	SS03	Total/NA	Solid	8015B NM	40544
890-3551-4	SS04	Total/NA	Solid	8015B NM	40544
MB 880-40544/1-A	Method Blank	Total/NA	Solid	8015B NM	40544
LCS 880-40544/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40544

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3551-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

GC Semi VOA (Continued)

Analysis Batch: 40553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-40544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40544
880-21877-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40544
880-21877-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40544

Analysis Batch: 40707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Total/NA	Solid	8015 NM	
890-3551-2	SS02	Total/NA	Solid	8015 NM	
890-3551-3	SS03	Total/NA	Solid	8015 NM	
890-3551-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Soluble	Solid	DI Leach	
890-3551-2	SS02	Soluble	Solid	DI Leach	
890-3551-3	SS03	Soluble	Solid	DI Leach	
890-3551-4	SS04	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3551-4 MS	SS04	Soluble	Solid	DI Leach	
890-3551-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 40550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3551-1	SS01	Soluble	Solid	300.0	40386
890-3551-2	SS02	Soluble	Solid	300.0	40386
890-3551-3	SS03	Soluble	Solid	300.0	40386
890-3551-4	SS04	Soluble	Solid	300.0	40386
MB 880-40386/1-A	Method Blank	Soluble	Solid	300.0	40386
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	300.0	40386
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40386
890-3551-4 MS	SS04	Soluble	Solid	300.0	40386
890-3551-4 MSD	SS04	Soluble	Solid	300.0	40386

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Job ID: 890-3551-1

Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

Client Sample ID: SS01 Lab Sample ID: 890-3551-1

Date Collected: 11/22/22 12:00 Matrix: Solid Date Received: 11/22/22 15:00

	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	40587	11/29/22 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40979	12/05/22 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41047	12/05/22 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40707	11/30/22 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40544	11/29/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40553	11/30/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40386	11/28/22 08:56	CH	EET MID
Soluble	Analysis	300.0		1			40550	11/29/22 11:13	SMC	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-3551-2 Matrix: Solid

Date Collected: 11/22/22 12:05 Date Received: 11/22/22 15:00

	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	40587	11/29/22 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40979	12/05/22 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41047	12/05/22 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40707	11/30/22 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40544	11/29/22 08:43	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40553	11/30/22 00:47	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	40386	11/28/22 08:56	СН	EET MIC
Soluble	Analysis	300.0		1			40550	11/29/22 11:21	SMC	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-3551-3

Date Collected: 11/22/22 12:10 **Matrix: Solid** Date Received: 11/22/22 15:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40587	11/29/22 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40979	12/05/22 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41047	12/05/22 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			40707	11/30/22 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40544	11/29/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40553	11/30/22 01:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	40386	11/28/22 08:56	CH	EET MID
Soluble	Analysis	300.0		1			40550	11/29/22 18:48	SMC	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-3551-4

Date Collected: 11/22/22 12:15 **Matrix: Solid** Date Received: 11/22/22 15:00

	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	40587	11/29/22 09:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40979	12/05/22 01:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41047	12/05/22 13:56	AJ	EET MID

Lab Chronicle

 Client: Ensolum
 Job ID: 890-3551-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: SS04 Lab Sample ID: 890-3551-4

Matrix: Solid

Date Collected: 11/22/22 12:15 Date Received: 11/22/22 15:00

	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			40707	11/30/22 13:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40544	11/29/22 08:43	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40553	11/30/22 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40386	11/28/22 08:56	CH	EET MID
Soluble	Analysis	300.0		1			40550	11/29/22 11:37	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3551-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Job ID: 890-3551-1 Client: Ensolum Project/Site: Ross Draw 2531

SDG: 03E1558137

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Ross Draw 2531

Job ID: 890-3551-1

SDG: 03E1558137	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3551-1	SS01	Solid	11/22/22 12:00	11/22/22 15:00	0.5
890-3551-2	SS02	Solid	11/22/22 12:05	11/22/22 15:00	0.5
890-3551-3	SS03	Solid	11/22/22 12:10	11/22/22 15:00	0.5
890-3551-4	SS04	Solid	11/22/22 12:15	11/22/22 15:00	0.5

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Chain of Custody

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

Environment Testing

eurofins .**

Xenco

Work Order No:

www.xenco.com

Project Manager:	Ben Belill				Bill to: (if	Bill to: (if different)		Garret Green	reen					Work	Work Order Comments	ents	
Company Name:	Ensolum				Company	y Name:		XTO Energy	rgy			Pro	Program: UST/PST		☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	RRC	Superfund
Address:	3122 National Parks Hwy	ırks Hv	wy		Address		(5)	104 E. (3104 E. Green St.			Sta	State of Project:		I		
City, State ZIP:	Carlsbad, NM 88220	220			City, State ZIP:	te ZIP:	J	arlsbad	Carlsbad, NM 88220	20		Re	oorting: Level	Level	-	TRRP	Level IV
Phone:	989-854-0852			Email:	Email: Garret. Green@ExxonMobil.com	Sreen@	Exxor	Mobil c	om			Pe	Deliverables: EDD		ABapt 🖽	Other.	
Project Name:	Ross Draw 2531	aw 25	31	Turn	Turn Around						ANALY	ANALYSIS REQUEST	TS		Δ.	Preservative Codes	e Codes
Project Number:	03E15	03E1558137	7	☑ Routine	Rush		Pres. Code								None: NO		DI Water: H ₂ O
Project Location:	32.01942,-103.94261	-103.9	14261	Due Date:											Cool: Cool		MeOH: Me
Sampler's Name:	Kase	Kase Parker	ľ	TAT starts the day received by	e day rece	ived by									HCL: HC		HNO3: HN
PO#:				the lab, if received by 4:30pm	seived by 4	:30pm	SI				-	-	-	_	H ₂ SO ₄ : H ₂		NaOH: Na
SAMPLE RECEIPT	PT Femp Blank:		(Yes) No	Wet Ice:	(Ye	8	aten	(0.							H ₃ PO₄: HP	F.	
Samples Received Intact:	ntact: Yes No	1	Thermometer ID:		MUCK	7	1616	300							NaHSC	NaHSO4: NABIS	
Cooler Custody Seals:	s: Yes No	A N	Correction Factor:		9	Ó	3q	:A9		_					Na ₂ S ₂ (Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	ils: Yes No	No.	Temperature Reading:	Reading:	CC	0		3) S			-068	890-3551 Chain of Custody	Custody		Zn Ace	Zn Acetate+NaOH: Zn	Zn
Total Containers:			Corrected Temperature	mperature:	100	×		_			8		(Books)		NaOH	NaOH+Ascorbic Acid: SAPC	cid: SAPC
Sample Identification		Matrix	Date	Time	Depth	de du	# of Cont	CHLOR)) хэта						S	Sample Comments	mments
SS01	-	S	11/22/2022	12:00	0.5	Grab/	-	×	×						Incident ID	int ID:	
8802	2		11/22/2022	12:05	0.5'	Grab/	-	×	×							NAPP2226646920	646920
8803	3	S	11/22/2022	12:10	0.5'	Grab/	-	×	×						Cost	Cost Center:	
8804	4		11/22/2022	12:15	0.5'	Grab/	-	×	×							1056651001	1001
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Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be	analyz	red	TCLP / SPLP 6010	PLP 60	10: 8RCRA	11	Sb As	Sb As Ba Be Cd Cr	Cd Cr	o Cu Pb A	Co Cu Pb Mn Mo Ni Se Ag Ti U	e Ag TI U	Hg	Hg: 1631 / 245.1 / 7470 / 747	17470 174	.71
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 described in the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such tosses are due to circumstances beyond the control of Eurofins Xenco. Eurofins Xenco, Dut not analyzed. These terms will be enforced unless previously negotiated.	document and relinguis to will be liable only for	shment c the cost	of samples cons t of samples and applied to each	stitutes a valid purity of shall not assure	urchase or me any res	der from c ponsibility or each s	lient corr for any	pany to E osses or bmitted to	expenses Eurofins	nco, its affil ncurred by (enco, but r	ates and subcor he client if such ot analyzed. The	tractors. It assigned to the terms will be	ins standard ter o circumstances enforced unless	ms and conditions the control	ons ntrol jotiated.		
Reinauished by: (Signature)	(Signature)	<	Receive	Received/by: (Signature)	ture)			Date/Time	ne	Relii	Relinquished by: (Signature)	(Signature)	Re	Received by: (Signature)	Signature)	Da	Date/Time

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

Received/by: (Signature)

Relinquished by: (Signature)

Eurofins Carlsbad

Chain of Custody Record

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Sampler Sampler Sampler Sampler Sample	1089 N Canal St.	C	Chain of Custody Record	f Custo	dy Re	cord				-3	Ä				9	euronns.	
Client Information Sub Contract Lab Sampler Contract Con	Carisbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199					9											Environment Testing
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Relinquished by Date/Time: Company Realyed by:		ate/Time·		Con	npany	Rècej	ed by:					D	Date/Time:	ľ			Company
Custody Seals Intact: Custody Seal No A Yes A No Cooler Temperature(s) °C and Other Remarks						Cooler	Tempera		C and Ot	her Rema	rks.						

12/5/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3551-1 SDG Number: 03E1558137

Login Number: 3551 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3551-1 SDG Number: 03E1558137

List Source: Furofins Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 11/23/22 11:47 AM

Creator: Kramer, Jessica

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/2/2022 11:58:48 AM

JOB DESCRIPTION

Ross Draw 2531 SDG NUMBER 03E1558137

JOB NUMBER

890-3553-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 12/2/2022 11:58:48 AM

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

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Client: Ensolum
Project/Site: Ross Draw 2531
Laboratory Job ID: 890-3553-1
SDG: 03E1558137

Table of Contents

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QC Sample Results	9
QC Association Summary	13
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Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	21

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Definitions/Glossary

Job ID: 890-3553-1 Client: Ensolum Project/Site: Ross Draw 2531

SDG: 03E1558137

Qualifiers

GC VOA Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Ross Draw 2531

Job ID: 890-3553-1

SDG: 03E1558137

Job ID: 890-3553-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3553-1

Receipt

The samples were received on 11/22/2022 3:00 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 21.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH02 (890-3553-1) and PH02A (890-3553-2).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40580 and analytical batch 880-40772 was outside the control limits.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-3543-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH02 (890-3553-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-40352 and analytical batch 880-40348 was outside the upper control 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.

Eurofins Carlsbad 12/2/2022

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Matrix: Solid

Lab Sample ID: 890-3553-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3553-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: PH02

Date Collected: 11/22/22 11:35 Date Received: 11/22/22 15:00

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:40	12/02/22 00:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:40	12/02/22 00:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/29/22 09:40	12/02/22 00:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 09:40	12/02/22 00:16	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/29/22 09:40	12/02/22 00:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 09:40	12/02/22 00:16	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/29/22 09:40	12/02/22 00:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/29/22 09:40	12/02/22 00:16	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/02/22 11:22	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/28/22 08:46	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/22 11:08	11/24/22 18:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/22 11:08	11/24/22 18:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/22 11:08	11/24/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			11/24/22 11:08	11/24/22 18:08	1
o-Terphenyl	131	S1+	70 - 130			11/24/22 11:08	11/24/22 18:08	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		25.0	mg/Kg			11/29/22 12:10	- 5

Client Sample ID: PH02A Lab Sample ID: 890-3553-2

Date Collected: 11/22/22 11:40 Date Received: 11/22/22 15:00

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/02/22 00:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/02/22 00:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/02/22 00:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/29/22 09:40	12/02/22 00:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/02/22 00:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/29/22 09:40	12/02/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/29/22 09:40	12/02/22 00:41	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3553-2

11/29/22 19:04

Client Sample Results

 Client: Ensolum
 Job ID: 890-3553-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: PH02A

Date Collected: 11/22/22 11:40 Date Received: 11/22/22 15:00

Sample Depth: 1

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 09:40	12/02/22 00:41	1
Method: TAL SOP Total BTEX - To	otal BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/02/22 11:22	1
Method: SW846 8015 NM - Diesel	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/28/22 08:46	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/24/22 11:08	11/24/22 18:30	1
(GRO)-C6-C10	50.0		50.0	".		44/04/00 44 00	11/01/00 10 00	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/22 11:08	11/24/22 18:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 11:08	11/24/22 18:30	1
3 3 (3. 3				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			11/24/22 11:08	11/24/22 18:30	1
			70 - 130			11/24/22 11:08	11/24/22 18:30	

5.01

mg/Kg

129

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3553-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-21876-A-1-D MS	Matrix Spike	120	102	
880-21876-A-1-E MSD	Matrix Spike Duplicate	106	97	
890-3553-1	PH02	121	106	
890-3553-2	PH02A	102	94	
LCS 880-40580/1-A	Lab Control Sample	102	99	
LCSD 880-40580/2-A	Lab Control Sample Dup	112	104	
MB 880-40580/5-A	Method Blank	67 S1-	93	

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 (Acc
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3543-A-1-B MS	Matrix Spike	121	120	
890-3543-A-1-C MSD	Matrix Spike Duplicate	135 S1+	135 S1+	
890-3553-1	PH02	115	131 S1+	
890-3553-2	PH02A	109	125	
LCS 880-40352/2-A	Lab Control Sample	85	95	
LCSD 880-40352/3-A	Lab Control Sample Dup	81	88	
MB 880-40352/1-A	Method Blank	128	146 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3553-1 SDG: 03E1558137 Project/Site: Ross Draw 2531

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40580/5-A

Matrix: Solid Analysis Batch: 40772 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40580

	MB	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/01/22 14:56	•
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/01/22 14:56	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/01/22 14:56	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 09:40	12/01/22 14:56	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 09:40	12/01/22 14:56	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 09:40	12/01/22 14:56	

мв мв

Surrogate	%Recovery	Qualifier	Limits	1	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	11/	/29/22 09:40	12/01/22 14:56	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/	/29/22 09:40	12/01/22 14:56	1

Lab Sample ID: LCS 880-40580/1-A

Matrix: Solid

Analysis Batch: 40772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40580

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2252		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-40580/2-A

Matrix: Solid

Analysis Batch: 40772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40580

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualit	fier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1288	mg/Kg		129	70 - 130	10	35
Toluene	0.100	0.1287	mg/Kg		129	70 - 130	16	35
Ethylbenzene	0.100	0.1209	mg/Kg		121	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2409	mg/Kg		120	70 - 130	7	35
o-Xylene	0.100	0.1225	mg/Kg		122	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1 4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-21876-A-1-D MS

Matrix: Solid

Analysis Batch: 40772

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

Prep Batch: 40580

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09212		mg/Kg		92	70 - 130	
Toluene	<0.00200	U	0.0996	0.09855		mg/Kg		99	70 - 130	

Client: Ensolum Job ID: 890-3553-1 Project/Site: Ross Draw 2531 SDG: 03E1558137

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

Lab Sample ID: 880-21876-A-1-D MS

Lab Sample ID: 880-21876-A-1-E MSD

Matrix: Solid

Analysis Batch: 40772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40580

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.0996 0.09727 98 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 U 0.199 0.1949 mg/Kg 98 70 - 130 0.0996 0.1015 o-Xylene <0.00200 U 70 - 130 mg/Kg 102

MS MS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	120	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 40580

Matrix: Solid Analysis Batch: 40772

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09389		mg/Kg		95	70 - 130	2	35
Toluene	<0.00200	U	0.0990	0.1064		mg/Kg		107	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0990	0.1012		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2025		mg/Kg		102	70 - 130	4	35
o-Xylene	<0.00200	U	0.0990	0.1030		mg/Kg		104	70 - 130	1	35

MSD MSD

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

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

Lab Sample ID: MB 880-40352/1-A

Matrix: Solid

Analysis Batch: 40348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40352

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/24/22 08:48	11/24/22 08:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/24/22 08:48	11/24/22 08:54	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 08:48	11/24/22 08:54	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	11/24/22 08:48	11/24/22 08:54	1
o-Terphenyl	146	S1+	70 - 130	11/24/22 08:48	11/24/22 08:54	1

Lab Sample ID: LCS 880-40352/2-A

Matrix: Solid

Analysis Batch: 40348

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

Prep Type: Total/NA Prep Batch: 40352

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	965.7		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	867.1		mg/Kg		87	70 - 130	
C10-C28)								

Job ID: 890-3553-1 Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

Lab Sample ID: LCS 880-40352/2-A

Lab Sample ID: LCSD 880-40352/3-A

Lab Sample ID: 890-3543-A-1-B MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 40348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40352

LCS LCS

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

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 85 70 - 130 o-Terphenyl 95 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

95

Prep Type: Total/NA

Prep Batch: 40352

9

Analysis Batch: 40348 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1062 106 70 - 1309 20 Gasoline Range Organics mg/Kg

948.8

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Matrix: Solid

Analysis Batch: 40348

LCSD LCSD

Surrogate %Recovery Qualifier Limits 81 70 - 130 1-Chlorooctane 88 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 40352

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <50.0 U 999 1165 mg/Kg 114 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 263 999 1325 mg/Kg 106 70 - 130 C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 121 o-Terphenyl 120 70 - 130

Lab Sample ID: 890-3543-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 40348

Prep Type: Total/NA

%Rec

Prep Batch: 40352

RPD

Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U 997 1299 Gasoline Range Organics mg/Kg 128 70 - 130 11 20 (GRO)-C6-C10 Diesel Range Organics (Over 263 997 1505 mg/Kg 125 70 - 130 13 20

MSD MSD

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 135 S1+ 70 - 130 135 S1+ 70 - 130 o-Terphenyl

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Job ID: 890-3553-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40386/1-A

Matrix: Solid

Analysis Batch: 40550

Client: Ensolum

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/29/22 09:19

Lab Sample ID: LCS 880-40386/2-A

Matrix: Solid

Analysis Batch: 40550

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 241.4 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-40386/3-A

Matrix: Solid

Analysis Batch: 40550

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit Limits RPD Limit Chloride 250 242.0 mg/Kg 90 - 110

Lab Sample ID: 890-3551-A-4-A MS

Matrix: Solid

Analysis Batch: 40550

Sample Sample MS MS Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 299.9 Chloride 48.9 249 101 90 - 110 mg/Kg

Lab Sample ID: 890-3551-A-4-A MSD

Matrix: Solid

Analysis Batch: 40550

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	48.9		249	300.2		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Ross Draw 2531

Job ID: 890-3553-1 SDG: 03E1558137

GC VOA

Prep Batch: 40580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3553-1	PH02	Total/NA	Solid	5035	_
890-3553-2	PH02A	Total/NA	Solid	5035	
MB 880-40580/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40580/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40580/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21876-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-21876-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 40772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Total/NA	Solid	8021B	40580
890-3553-2	PH02A	Total/NA	Solid	8021B	40580
MB 880-40580/5-A	Method Blank	Total/NA	Solid	8021B	40580
LCS 880-40580/1-A	Lab Control Sample	Total/NA	Solid	8021B	40580
LCSD 880-40580/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40580
880-21876-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	40580
880-21876-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40580

Analysis Batch: 40877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Total/NA	Solid	Total BTEX	
890-3553-2	PH02A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 40348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Total/NA	Solid	8015B NM	40352
890-3553-2	PH02A	Total/NA	Solid	8015B NM	40352
MB 880-40352/1-A	Method Blank	Total/NA	Solid	8015B NM	40352
LCS 880-40352/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40352
LCSD 880-40352/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40352
890-3543-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	40352
890-3543-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40352

Prep Batch: 40352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Total/NA	Solid	8015NM Prep	
890-3553-2	PH02A	Total/NA	Solid	8015NM Prep	
MB 880-40352/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40352/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40352/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-3543-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
390-3543-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Total/NA	Solid	8015 NM	
890-3553-2	PH02A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

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QC Association Summary

Client: Ensolum Job ID: 890-3553-1 Project/Site: Ross Draw 2531 SDG: 03E1558137

HPLC/IC

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Soluble	Solid	DI Leach	
890-3553-2	PH02A	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 40550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3553-1	PH02	Soluble	Solid	300.0	40386
890-3553-2	PH02A	Soluble	Solid	300.0	40386
MB 880-40386/1-A	Method Blank	Soluble	Solid	300.0	40386
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	300.0	40386
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40386
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	300.0	40386
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40386

40550

11/29/22 19:04

SMC

EET MID

SDG: 03E1558137

Project/Site: Ross Draw 2531

Client Sample ID: PH02

Client: Ensolum

Date Collected: 11/22/22 11:35 Date Received: 11/22/22 15:00 Lab Sample ID: 890-3553-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40580	11/29/22 09:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40772	12/02/22 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40877	12/02/22 11:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			40379	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40352	11/24/22 11:08	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/24/22 18:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		5			40550	11/29/22 12:10	SMC	EET MID

Client Sample ID: PH02A

Date Collected: 11/22/22 11:40

Lab Sample ID: 890-3553-2

Matrix: Solid

Date Collected: 11/22/22 11:40 Date Received: 11/22/22 15:00

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 40580 Total/NA Prep 5.01 g 5 mL 11/29/22 09:40 MNR EET MID 8021B Total/NA 5 mL 12/02/22 00:41 **EET MID** Analysis 1 5 mL 40772 MNR Total/NA Total BTEX 40877 12/02/22 11:22 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 40379 11/28/22 08:46 SM **EET MID** Total/NA 40352 Prep 8015NM Prep 10.01 g 10 mL 11/24/22 11:08 AM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 40348 11/24/22 18:30 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 40386 11/28/22 08:56 СН **EET MID**

Laboratory References:

Analysis

Soluble

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

300.0

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3553-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum Job ID: 890-3553-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Ross Draw 2531

Job ID: 890-3553-1 SDG: 03E1558137

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-3553-1 PH02 Solid 11/22/22 11:35 11/22/22 15:00 0.5 890-3553-2 PH02A Solid 11/22/22 11:40 11/22/22 15:00

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Chain of Custody

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

Work Order No:

Project Manager: Ben	Ben Belill			Bill to: (if different)		Garret Green	een		>	Work Order Comments	omments	
	Ensolum			Company Name:		XTO Energy	rgy		Program: UST/PST ☐	PRP Brown	☐ PRP☐ Brownfields ☐ RRC ☐	☐ Superfund ☐
	3122 National Parks Hwy	-lwy		Address:	3	104 E. (3104 E. Green St.		State of Project:			[
City, State ZIP: Carls	Carlsbad, NM 88220			City, State ZIP:		arlsbad	Carlsbad, NM 88220		Reporting: Level II Le	evel III PST	Level III PST/UST TRRP Level IV	☐ Level IV ☐
	989-854-0852		Email:	Email: Garret.Green(reen@ExxonMobil.com	Mobil.c	<u> </u>		Deliverables: EDD	ADaPT [Other	
Project Name:	Ross Draw 2531	1531	Turn	Turn Around				ANALYSIS REQUEST	REQUEST		Preservative Codes	ve Codes
Project Number:	03E1558137	37	✓ Routine	☐ Rush	Pres. Code						None: NO	DI Water: H ₂ O
Project Location:	32.01942,-103.94261	94261	Due Date:								Cool: Cool	МеОН: Ме
Sampler's Name:	Kase Parker	er	TAT starts the	TAT starts the day received by							HCL: HC	HNO3: HN
PO#:			the lab, if rece	the lab, if received by 4:30pm	SJ						H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	(Yes) No	Wet Ice:	(Yes No	eşəu	(0.					Н₃РО₄: НР	
Samples Received Intact:	(Kes) No	Thermometer ID:		MM 007	ILSI	300				_	NaHSO4: NABIS	
Cooler Custody Seals:	Yes No	M/A Correction Factor:		C. Q-	şd	: A 9					Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No WIA	VIA Temperature Reading:	Reading:	000		3) S		890-3553 Chain of Custody	of Custody	- 7	Zn Acetate+NaOH: Zn	f: Zn
Total Containers:		Corrected Temperature:	mperature:	8.10						_	NaOH+Ascorbic Acid: SAPC	vcid: SAPC
Sample Identification	ıtion Matrix	Date	Time	Depth Grab/	# of Cont	снгов) НЧТ) ХЭТВ				Sample Comments	mments
PH02	S	11/22/2022	11:35	0.5' Grab/	-		×				Incident ID:	
PH02A	S	11/22/2022	11:40	1' Grab/	+	×	×				NAPP2226646920	3646920
)	Cost Center:	
											1056651001	1001
					1	X	9			*	AFE:	
						-						
						H				<i></i>		
Total 200 7 / 6010	200.8 / 6020	8	BRCRA 13PPM Texa	PM Texas 11	ш	As B	Be B C	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K		Se Ag SiO ₂ Na Sr T	Sr TI Sn U V	Z.
Circle Method(s) and Metal(s) to be analyzed	etal(s) to be analy		TCLP / SPLP 6010	JLP 6010: 8R	()	sh ds	3a Be Cc	RECRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U		Hg: 1631 / 2	Hg: 1631 / 245.1 / 7470 / 7471	471

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. oce: Signature of this document and relinquishment of semples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

Revised Date: 08/25/2020 Rev. 2020 Date/Time Received by: (Signature) Relinquished by: (Signature) -22 22 150 Date/Time Received by: (Signature) (Signature) inguished by

13 14

eurofins 🕏

Environment Testing

Xenco

1089 N Canal St

Eurofins Carlsbad

Chain of Custody Record

💸 eurofins

Environment Testing

State, Zip[.] T**X** 79701 Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compilance 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. PH02A (890-3553-2) PH02 (890-3553-1) ROSS DRAW 2531 432-704-5440(Tel) Sample Identification - Client ID (Lab ID Client Information (Sub Contract Lab) Empty Kit Relinguished by Possible Hazard Identification Midland 1211 W Florida Ave Deliverable Requested I II III IV Other (specify) elinquished by linquished by nconfirmed rofins Environment Testing South Centr ipping/Receiving inquished by: Z Custody Seal No Phone Primary Deliverable Rank. 2 89000093 TAT Requested (days) 11/30/2022 Due Date Requested Date/Time 11/22/22 11/22/22 Mountain 11 40 Date Mountain 1 35 G=grab (C=comp, Sample Preservation Code Type Company Company Matrix Solid Solid Lab PM Kramer Jessica Jessica Kramer@et.eurofinsus com E-Mail lime NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) editations Required (See note): 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks received by: Return To Client × × 8015MOD Calc 300 ORGFM 28D/DI LEACH Chloride × × × × 8021B/6036FP_Calc (MOD) BTEX Analysis Requested Total_BTEX_GCV × × Disposal By Lab State of Origin New Mexico Method of Shipment Tracking No(s) Date/Time Archive For Total Number of containers COC No 890-1042 1 ΗG 71 M C C B > Page 1 of 1 Preservation Page 390-3553-1 3 NaOH
2 Na Action
2 Na Action
2 Na Action
3 Na Action
5 Na Action
6 Na Action
6 Anchor
6 Anchor
6 Anchor
6 Accorbic Acid
6 I Ce
7 I Ce
8 DTA
6 EDTA
6 EDTA
6 EDTA 무 Special Instructions/Note: M Hexane
N None
N None
O AsNao2
P-Na204S
Q Na2S03
R Na2S03
R Na2S03
S H2S04
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Tizma
Z other (specify) Ver: 06/08/202 Company Months

12/2/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3553-1 SDG Number: 03E1558137

Login Number: 3553 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3553-1

SDG Number: 03E1558137

Login Number: 3553 **List Source: Eurofins Midland** List Number: 2 List Creation: 11/23/22 11:47 AM

Creator: Kramer, Jessica

<6mm (1/4").

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	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/2/2022 3:58:35 PM

JOB DESCRIPTION

Ross Draw 2531 SDG NUMBER 03E1558137

JOB NUMBER

890-3554-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 12/2/2022 3:58:35 PM

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

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

Client: Ensolum
Project/Site: Ross Draw 2531
Laboratory Job ID: 890-3554-1
SDG: 03E1558137

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Definitions/Glossary

Job ID: 890-3554-1 Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Ross Draw 2531

Job ID: 890-3554-1

SDG: 03E1558137

Job ID: 890-3554-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3554-1

Receipt

The samples were received on 11/22/2022 3:00 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 21.8°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40625 and analytical batch 880-40842 was outside the control limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-3543-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-40352 and analytical batch 880-40348 was outside the upper control limits.

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

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

Matrix: Solid

Lab Sample ID: 890-3554-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3554-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: PH01

Date Collected: 11/22/22 11:25 Date Received: 11/22/22 15:00

Sample Depth: 0.5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 15:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 15:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 15:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/29/22 16:02	12/02/22 15:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 15:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/29/22 16:02	12/02/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			11/29/22 16:02	12/02/22 15:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/29/22 16:02	12/02/22 15:14	1
Method: TAL SOP Total BTEX -	Total BTEX Cale	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/02/22 16:23	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T TD					_		Allalyzeu	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg	— <u>-</u>		11/28/22 08:46	1
Total TPH: Method: SW846 8015B NM - Die				mg/Kg	_ =			1
- -	sel Range Orga			mg/Kg Unit		Prepared		1
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)			· ·	11/28/22 08:46	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	Qualifier	(GC)	Unit		Prepared	11/28/22 08:46 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	(GC) RL 49.8	<mark>Unit</mark> mg/Kg		Prepared 11/24/22 11:08	11/28/22 08:46 Analyzed 11/24/22 18:51	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	(GC) RL 49.8	<mark>Unit</mark> mg/Kg mg/Kg		Prepared 11/24/22 11:08 11/24/22 11:08	11/28/22 08:46 Analyzed 11/24/22 18:51 11/24/22 18:51	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		Qualifier U	(GC) RL 49.8 49.8 49.8	<mark>Unit</mark> mg/Kg mg/Kg		Prepared 11/24/22 11:08 11/24/22 11:08	Analyzed 11/24/22 18:51 11/24/22 18:51	Dil Face 1 1 1 Dil Face
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		Qualifier U	(GC) RL 49.8 49.8 49.8 Limits	<mark>Unit</mark> mg/Kg mg/Kg		Prepared 11/24/22 11:08 11/24/22 11:08 11/24/22 11:08 Prepared	Analyzed 11/24/22 18:51 11/24/22 18:51 11/24/22 18:51 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Name	Qualifier U Qualifier	(GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg		Prepared 11/24/22 11:08 11/24/22 11:08 11/24/22 11:08 Prepared 11/24/22 11:08	Analyzed 11/24/22 18:51 11/24/22 18:51 Analyzed 11/24/22 18:51	Dil Fac

Client Sample ID: PH01A

Date Collected: 11/22/22 11:30 Date Received: 11/22/22 15:00

Date Received. 11/22/22 10

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 15:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 15:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 15:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/29/22 16:02	12/02/22 15:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 15:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/29/22 16:02	12/02/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			11/29/22 16:02	12/02/22 15:41	1

4.98

mg/Kg

19.0

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11/29/22 19:13

Lab Sample ID: 890-3554-2

Matrix: Solid

2

3

5

10

12

Matrix: Solid

Lab Sample ID: 890-3554-2

11/29/22 12:50

Client Sample Results

 Client: Ensolum
 Job ID: 890-3554-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Client Sample ID: PH01A

Date Collected: 11/22/22 11:30 Date Received: 11/22/22 15:00

Sample Depth: 1

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130			11/29/22 16:02	12/02/22 15:41	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/02/22 16:23	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/28/22 08:46	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/24/22 11:08	11/24/22 19:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/24/22 11:08	11/24/22 19:12	1
C10-C28)	50.0		50.0	".		44/04/00 44 00	11/01/00 10 10	
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 11:08	11/24/22 19:12	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate			70 - 130			11/24/22 11:08	11/24/22 19:12	1
Surrogate 1-Chlorooctane	108		70 - 700					

4.99

mg/Kg

42.8

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3554-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3549-A-1-C MS	Matrix Spike	114	102	
890-3549-A-1-D MSD	Matrix Spike Duplicate	104	101	
890-3554-1	PH01	120	91	
890-3554-2	PH01A	96	89	
LCS 880-40625/1-A	Lab Control Sample	105	100	
LCSD 880-40625/2-A	Lab Control Sample Dup	104	97	
MB 880-40625/5-A	Method Blank	68 S1-	94	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3543-A-1-B MS	Matrix Spike	121	120
890-3543-A-1-C MSD	Matrix Spike Duplicate	135 S1+	135 S1+
890-3554-1	PH01	110	126
890-3554-2	PH01A	108	124
LCS 880-40352/2-A	Lab Control Sample	85	95
LCSD 880-40352/3-A	Lab Control Sample Dup	81	88
MB 880-40352/1-A	Method Blank	128	146 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3554-1 SDG: 03E1558137 Project/Site: Ross Draw 2531

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40625/5-A

Lab Sample ID: LCS 880-40625/1-A

Matrix: Solid

Analysis Batch: 40842

Matrix: Solid Analysis Batch: 40842 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40625

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/29/22 16:02	12/02/22 11:45	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	11/29/22 16:0	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/29/22 16:0	2 12/02/22 11:45	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40625

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1252	-	mg/Kg		125	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	

LCS LCS

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-40625/2-A

Analysis Batch: 40842

Prep Type: Total/NA Prep Batch: 40625

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	5	35
Toluene	0.100	0.1151		mg/Kg		115	70 - 130	5	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-3549-A-1-C MS

Matrix: Solid

Analysis Batch: 40842

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

Prep Batch: 40625

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.1021		mg/Kg		103	70 - 130	
Toluene	<0.00201	U	0.0996	0.1062		mg/Kg		107	70 - 130	

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104

mg/Kg

70 - 130

Prep Type: Total/NA

Prep Batch: 40625

QC Sample Results

Job ID: 890-3554-1 Client: Ensolum Project/Site: Ross Draw 2531 SDG: 03E1558137

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

<0.00201 U

Lab Sample ID: 890-3549-A-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

o-Xylene

Analysis Batch: 40842 Prep Batch: 40625 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00201 U 0.0996 0.1009 101 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00402 0.199 0.2022 mg/Kg 101 70 - 130

0.1035

0.0996

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 114 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 890-3549-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 40842

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00201 U 0.0990 0.09136 mg/Kg 92 70 - 130 11 35 Toluene <0.00201 0.0990 0.09165 mg/Kg 93 70 - 130 15 35 Ethylbenzene <0.00201 0.0990 0.08677 88 70 - 130 15 35 U mg/Kg m-Xylene & p-Xylene <0.00402 U 0.198 0.1732 mg/Kg 87 70 - 130 15 35 0.0990 0.08889 70 - 130 o-Xylene <0.00201 U mg/Kg 90 15

MSD MSD

Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 104 1,4-Difluorobenzene (Surr) 101 70 - 130

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

Lab Sample ID: MB 880-40352/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 40348

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/22 08:48	11/24/22 08:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/22 08:48	11/24/22 08:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/22 08:48	11/24/22 08:54	1

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 128 70 - 130 11/24/22 08:48 11/24/22 08:54 146 S1+ 70 - 130 11/24/22 08:48 11/24/22 08:54 o-Terphenyl

Lab Sample ID: LCS 880-40352/2-A

Matrix: Solid

Analysis Batch: 40348							Prep	Batch: 40352
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	965.7		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	867.1		mg/Kg		87	70 - 130	
C10-C28)								

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

Prep Batch: 40352

Client: Ensolum Job ID: 890-3554-1 Project/Site: Ross Draw 2531 SDG: 03E1558137

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

LCS LCS

Lab Sample ID: LCS 880-40352/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 40348

Prep Type: Total/NA

Prep Batch: 40352

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 85 70 - 130 o-Terphenyl 95 70 - 130

Lab Sample ID: LCSD 880-40352/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 40348

Prep Type: Total/NA

Prep Batch: 40352

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1062 106 70 - 1309 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 948.8 95 mg/Kg 70 - 1309 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 81 70 - 130 1-Chlorooctane 88 70 - 130 o-Terphenyl

Lab Sample ID: 890-3543-A-1-B MS Client Sample ID: Matrix Spike

MS MS

Matrix: Solid

Analysis Batch: 40348

Prep Type: Total/NA

Prep Batch: 40352

Sample Sample Spike Added Result Qualifier Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 999 1165 mg/Kg 114 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 263 999 1325 mg/Kg 106 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 121 70 - 130 o-Terphenyl 120

Lab Sample ID: 890-3543-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 40348

Released to Imaging: 3/13/2023 2:45:13 PM

Prep Type: Total/NA Prep Batch: 40352 Snika MeD MeD

_	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	997	1299		mg/Kg		128	70 - 130	11	20
(GRO)-C6-C10											
Diesel Range Organics (Over	263		997	1505		mg/Kg		125	70 - 130	13	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 135 S1+ 70 - 130 135 S1+ 70 - 130 o-Terphenyl

Client: Ensolum Job ID: 890-3554-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40386/1-A

Matrix: Solid

Analysis Batch: 40550

Analyte

Chloride

мв мв Dil Fac Result Qualifier RL Unit D Prepared Analyzed <5.00 U 5.00 mg/Kg 11/29/22 09:19

Lab Sample ID: LCS 880-40386/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40550

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 241.4 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-40386/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 40550

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 242.0 mg/Kg 90 - 110

Lab Sample ID: 890-3551-A-4-A MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 40550

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 48.9 249 299.9 101 90 - 110 mg/Kg

Lab Sample ID: 890-3551-A-4-A MSD

Matrix: Solid

Analysis Batch: 40550

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 48.9 300.2 mg/Kg 101 90 - 110 0 20

QC Association Summary

 Client: Ensolum
 Job ID: 890-3554-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

GC VOA

Prep Batch: 40625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Total/NA	Solid	5035	
890-3554-2	PH01A	Total/NA	Solid	5035	
MB 880-40625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 40842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Total/NA	Solid	8021B	40625
890-3554-2	PH01A	Total/NA	Solid	8021B	40625
MB 880-40625/5-A	Method Blank	Total/NA	Solid	8021B	40625
LCS 880-40625/1-A	Lab Control Sample	Total/NA	Solid	8021B	40625
LCSD 880-40625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40625
890-3549-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	40625
890-3549-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40625

Analysis Batch: 40913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Total/NA	Solid	Total BTEX	
890-3554-2	PH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 40348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Total/NA	Solid	8015B NM	40352
890-3554-2	PH01A	Total/NA	Solid	8015B NM	40352
MB 880-40352/1-A	Method Blank	Total/NA	Solid	8015B NM	40352
LCS 880-40352/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40352
LCSD 880-40352/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40352
890-3543-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	40352
890-3543-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40352

Prep Batch: 40352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Total/NA	Solid	8015NM Prep	
890-3554-2	PH01A	Total/NA	Solid	8015NM Prep	
MB 880-40352/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40352/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40352/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3543-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3543-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Total/NA	Solid	8015 NM	
890-3554-2	PH01A	Total/NA	Solid	8015 NM	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3554-1

 Project/Site: Ross Draw 2531
 SDG: 03E1558137

HPLC/IC

Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Soluble	Solid	DI Leach	
890-3554-2	PH01A	Soluble	Solid	DI Leach	
MB 880-40386/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 40550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3554-1	PH01	Soluble	Solid	300.0	40386
890-3554-2	PH01A	Soluble	Solid	300.0	40386
MB 880-40386/1-A	Method Blank	Soluble	Solid	300.0	40386
LCS 880-40386/2-A	Lab Control Sample	Soluble	Solid	300.0	40386
LCSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40386
890-3551-A-4-A MS	Matrix Spike	Soluble	Solid	300.0	40386
890-3551-A-4-A MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40386

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Lab Chronicle

Client: Ensolum Job ID: 890-3554-1 Project/Site: Ross Draw 2531 SDG: 03E1558137

Client Sample ID: PH01

Date Received: 11/22/22 15:00

Lab Sample ID: 890-3554-1 Date Collected: 11/22/22 11:25

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 15:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40913	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40380	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	40352	11/24/22 11:08	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/24/22 18:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		1			40550	11/29/22 19:13	SMC	EET MID

Client Sample ID: PH01A Lab Sample ID: 890-3554-2

Date Collected: 11/22/22 11:30

Date Received: 11/22/22 15:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40913	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40380	11/28/22 08:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40352	11/24/22 11:08	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40348	11/24/22 19:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40386	11/28/22 08:56	СН	EET MIC
Soluble	Analysis	300.0		1			40550	11/29/22 12:50	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3554-1 Project/Site: Ross Draw 2531 SDG: 03E1558137

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum Job ID: 890-3554-1 Project/Site: Ross Draw 2531

SDG: 03E1558137

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Ross Draw 2531

Job ID: 890-3554-1

SDG: 03E1558137

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3554-1	PH01	Solid	11/22/22 11:25	11/22/22 15:00	0.5
890-3554-2	PH01A	Solid	11/22/22 11:30	11/22/22 15:00	1

Revised Date: 08/25/2020 Rev. 2020.2

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

Environment Testing Xenco

💸 eurofins

Work Order No:

Project Manager:	Ben Belill			Bill to: (if different)	fferent)	Garrel	Garret Green		Work Orde	Work Order Comments	
Company Name:	Ensolum			Company Name:	Name:	XTO Energy	nergy		Program: UST/PST PRP Brownfields RRC Superfund	ownfields RRC Supe	[] pund
Address:	3122 National Parks Hwy	Hwy		Address:		3104	3104 E. Green St	t.	State of Project:	1	[
City, State ZIP:	Carlsbad, NM 88220			City, State	ZIP:	Carlst	Carlsbad, NM 88220	1220	Reporting: Level III DPST/UST	TRRP	Level IV
Phone:	989-854-0852		Email:	Email: Garret.Gr	een@ExxonMobil.com	dolynox	.com		Beliverables: EDB AB	ADAPT COther.	
Project Name:	Ross Draw 2531	2531	Turr	Turn Around				ANALYSIS	ANALYSIS REQUEST	Preservative Codes	es
Project Number:	03E1558137	137	☑ Routine	□ Rush	Pres. Code	, e				None: NO DI Wa	DI Water: H ₂ O
Project Location:	32.01942,-103.94261	3.94261	Due Date:							_	Me
Sampler's Name:	Kase Parker	ker	TAT starts the day received by the lab if received by 4.30pm	TAT starts the day received by the lab if received by 4:30pm					_	HCL: HC HNO3: HN H-S02: H2	Z e
PO#:	IOT Tomp Blook.	VOS NO	Wet Ice.		neters					0	
Samples Bereived Intact	I	Thermometer ID:	- Not 100		T					NaHSO4: NABIS	
Cooler Custody Seals:	Yes No	MA Correction Factor:	1	(20,0)	Г					Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No	Temperature Reading:	Reading:	23.		13) S			890-3554 Chain of Custody	Zn Acetate+NaOH: Zn	
Total Containers:			emperature:	31.8		IDE		_		NaOH+Ascorbic Acid: SAPC	DG D
Sample Identification	ntification Matrix	Date Sampled	Time	Depth	Grab/ # of Comp Cont	снгов) H9T) X3T8			Sample Comments	ts
PH01	S S	11/22/2022	11:25	0.5'	Grab/ 1	×	×			Incident ID:	
PH01A		11/22/2022	11:30	1-	Grab/ 1	×	×			NAPP2226646920	0
,										Cost Center:	
										1056651001	
							,			AFE	
					1		2				
							-	1			
					-		-				
Total 200.7 / 6010	010 200.8 / 6020:		BRCRA 13PPM	PM Texas 11	IS 11 AI		Sb As Ba Be B	B Cd Ca Cr Co Cu Fe	Pb Mg Mn Mo Ni K Se A	Na Sr TI Sn U V Zn	
Circle Method(s) a	Circle Method(s) and Metal(s) to be analyzed	lyzed	TCLP / S	TCLP / SPLP 6010	: BRCRA	- 1	s Ba Be	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	Se Ag TI U	Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this of service. Eurofins Xer	Votice: Signature of this document and relinquishment of samples constitutes a valid purchase order of service. Eurofins Senco will be liable only for the cost of samples and shall not assume any respon Service. Eurofins Senco will be applied to each project and a charge of \$5 for of Eurofins Xenco. A middown charge of \$55.00 will be applied to each project and a charge of \$5 for	ent of samples concost of samples are be applied to each	stitutes a valid pr of shall not assu project and a ch	urchase order me any responarge of \$5 for	from client nsibility for each samp	company family f	o Eurofins X or expenses d to Eurofins	enco, its affiliates and subcontra i incurred by the client if such los s Xenco, but not analyzed. These	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 are cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. Eurofins Xenco, A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	5d.	
Relinguished b	Relinquished by: (Signature)	Receive	Received by: (Signature)	ture)		Date/	Date/Time	Relinquished by: (Signature)	ignature) Received by: (Signature)	ature) Date/Time	Je Je

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Chain of Custody Record

Custody Seals Intact: Custody Seal No	Relinquished by:	Relinquished by	The state of the s	Relinquished by:	Empty Kit Relinguished by:	Deliverable Requested I II III IV Other (specify)	Possible Hazard Identification Unconfirmed	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.						PH01A (890-3554-2)	PH01 (890-3554-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: ROSS DRAW 2531	Email	Phone: 432-704-5440(TeI)	State Zip: TX, 79701	City: Midland	Address 1211 W Florida Ave ,	Company Eurofins Environment Testing South Centr	Client Contact Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199	Eurofins Carlsbad
	Date/Time	Date/Time ⁻	Calcon III.	Date/Time:		Primary Deliverable Rank.		ent Testing South Cen above for analysis/test >entral LLC attention i						11/22/22	11/22/22	X	Sample Date	SSOW#	Project #: 89000093	WO#:	PO#:		TAT Requested (days):	Due Date Requested 11/30/2022		Phone	Sampler	-	
					Date			ntral, LLC places ts/matrix being a immediately If						11 30 Mountain	11 25 Mountain	1	Sample						days):	ted				Chain of Custody Record	
						2		the ownership analyzed, the s all requested a								4000	Sample Type (C=comp, G=grab)											of Cus	
	Company	Company	Company					of method and amples must be ccreditations ar						Solid	Solid	Preservation Code:	Matrix (w=water \$=solid, O=waste/oil, BT=Tissue, A=Air)									E-Mail Jessi	Lab PM Kramer	tody R	
					Time	Spe	Sar [alyte & acc shipped e current								X	Field Filtered Perform MS/N	STORESON WOOD	A. VIR. 1.2880	0000000000000)				Accreditations Required (See note) NELAP - Texas	E-Mail Jessica Kramer@et.eurofinsus	,	есо	
Cooler	Received by	Received	Received			Special Instructions/QC	Sample Disposal (A 1	reditation back to to date,				-		×	×		8015MOD_NM/		I_S_Pr	op (MO	D) Ful	TPH			ations R	ner@e	Jessica	ᆲ	
Cooler Temperature(s)	ed by	ed by:	100			struct	le Disposal (A Return To Clieni	on com the Eur return t		-	_	<u> </u>		×	×		8015MOD_Cald 300_ORGFM_2		EACH	Chloric	de				equired as	et.eurc			
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		_	4811				ee may be assessed if samples are retained longer than Disposal By Lab Archive For	forwarded under o structions will be p s Environment Te									Special Ir	Other:	EDA		Amchlor Ascorbic Acid			Preservation Codes	Job #: 890-3554-1	Page: Page 1 of 1	COC No: 890-1042 1	💸 eurofins	
	Company	Company	Company				1 month) Months	chain-of-custody If the provided Any changes to sting South Central LLC									Special Instructions/Note:		Y Trizma Z other (specify)	V MCAA V nH 4-5	S H2SO4 T TSP Dodecahydrate	P Na2O4S Q Na2SO3 R Na2S2O3	N None O - AsNaO2	des M Hexane				Environment Testing	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3554-1
SDG Number: 03E1558137

Login Number: 3554 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3554-1 SDG Number: 03E1558137

List Source: Furnishe Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 11/23/22 11:47 AM

Creator: Kramer, Jessica

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

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APPENDIX E

NMOCD Notifications

From: <u>Green, Garrett J</u>
To: <u>Tacoma Morrissey</u>

Subject: FW: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

Date: Friday, November 18, 2022 3:38:40 PM

[**EXTERNAL EMAIL**]

From: Green, Garrett J

Sent: Friday, November 18, 2022 8:52 AM

To: 'ocd.enviro@emnrd.nm.gov' <ocd.enviro@emnrd.nm.gov>; 'Bratcher, Michael, EMNRD' <mike.bratcher@emnrd.nm.gov>; 'Hamlet, Robert, EMNRD' <Robert.Hamlet@emnrd.nm.gov>; 'Harimon, Jocelyn, EMNRD' <Jocelyn.Harimon@emnrd.nm.gov>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>

Subject: XTO - Sampling Notification (Week of 11/21/22 - 11/25/22)

All,

XTO plans to complete final sampling activities at the following sites the week of Nov 21, 2022.

- JRU 17 CTB/ nAPP2226628060
- BEU 158 / nAPP2230548752
- Ross Draw 2531 TB FIRE/ nAPP2226646920
- Remuda 100 CTB / nAPP2226346738
- West Brushy Fed 33 1H/ nAPP2228753314
- Ross Draw 3031/ nAPP2227244441

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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

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

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

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

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

CONDITIONS

Action 165809

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	165809
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2226646920 ROSS DRAW 2531 CENTRAL TANK BATTERY, thank you. This closure is approved.	3/13/2023