Page 6

Oil Conservation Division

	Page 1 of 0	50
Incident ID	NAPP2232251876	
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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
Laboratory analyses of final sampling (Note: appropriate OD	OC 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 certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in			
Printed Name: _ Garrett Green	Title: _SSHE Coordinator			
Signature:Satt Sum	Date:12/28/2022			
email:garrett.green@exxonmobil.com	Telephone:575-200-0729			
OCD Only				
OCD Only Received by: Jocelyn Harimon	Date:12/29/2022			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by: <u>Robert Hamlet</u>	Date: 4/5/2023			
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	NAPP2232251876
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Facility ID	
Application ID	

# **Release Notification**

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380	
Contact Name Garrett Green	Contact Telephone 575-200-0729	
Contact email garrett.green@exxonmobil.com	Incident # (assigned by OCD)	
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220		

#### **Location of Release Source**

Latitude 32.08152

Longitude -103.99000 (NAD 83 in decimal degrees to 5 decimal places)

Site Name West Brushy Federal 33 #1 battery	Site Type Tank Battery	
Date Release Discovered 11/09/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
Ν	33	258	29E	Eddy

Surface Owner: State 🗵 Federal 🗌 Tribal 🗌 Private (Name: \_

#### Nature and Volume of Release

Materi	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)	
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
► Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 1.5	
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes X No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
dispate defects	5	eleased fluids into lined containment. Vac truck was d amounts were determined by tank gauges. No visible ate to determine extent and scope of release. A third-party	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🕱 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

#### **Initial Response**

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

 $\checkmark$  The source of the release has been stopped.

★ The impacted area has been secured to protect human health and the environment.

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

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

If all the actions described above have <u>not</u> been undertaken, explain why:

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

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

Printed Name:	Title: SSHE Coordinator
Signature: Satt Suter	Date:
email:	Telephone:
OCD Only	11/18/2022
Jocelyn Harimon Received by:	Date:

NA

Oil Conservation Division

	Page 4 of 6
Incident ID	NAPP2232251876
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

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

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

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

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

Page 3

- Data table of soil contaminant concentration data
- $\square$  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.

<b>Received by OCD: 12/29/20</b> Form C-141	22 2:48:13 PM State of New Mexico		Incident ID	Page 5 of 60
Page 4	Oil Conservation Divisio	on	District RP	
			Facility ID	
			Application ID	
regulations all operators are a public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: _ Garrett C Signature: _ Standbarret email:garrett.green@ex	mation given above is true and complete to required to report and/or file certain release nent. The acceptance of a C-141 report by thate and remediate contamination that pose a f a C-141 report does not relieve the operator.	notifications and perform co he OCD does not relieve the threat to groundwater, surfa r of responsibility for compl	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by: <u>Jocelyn</u>	n Harimon	Date:	12/29/2022	

Page 6

Oil Conservation Division

	Page 6 of	60
Incident ID	NAPP2232251876	
District RP		
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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.

<b><u>Closure Report Attachment Checklist</u>: Each of the following</b>	items must be included in the closure report.
$\square$ A scaled site and sampling diagram as described in 19.15.29.	.11 NMAC
Photographs of the remediated site prior to backfill or photomust 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 certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	lations. 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.
Printed Name: _ Garrett Green	Title: _SSHE Coordinator
	Date:12/28/2022
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by: Jocelyn Harimon	Date: <u>12/29/2022</u>
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible l/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

# **E** N S O L U M

December 28, 2022

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

#### Re: Closure Request West Brushy Fed 33 1H & West Brushy Draw 33 #1 Battery Incident Numbers NAPP2228753314 & NAPP2232251876 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, delineation, and soil sampling activities at the West Brushy Fed 33 1H and West Brushy Federal 33 #1 battery, which is co-located and collectively referred to as the "Site." The purpose of the soil sampling activities was to assess for the presence or absence of impacts to soil following two releases of produced water to a lined impermeable containment. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing activities that have occurred and requesting no further action for Incident Numbers NAPP2228753314 and NAPP2232251876.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 33, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.08042°N, 103.99242°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 1, 2022, due to corrosion on a water tank 67 barrels (bbls) of produced water were released into the impermeable containment area. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; 0.25 bbls of released fluids were recovered. The release volume was estimated using tank gauge data. XTO reported the release immediately to New Mexico Oil Division (NMOCD) via email on October 3, 2022. A 48-hour liner inspection notification was submitted to the NMOCD and no visible defects to the liner were observed. XTO submitted a Release Notification Form C-141 (Form C-141) on October 14, 2022 and the release was assigned Incident Number NAPP2228753314.

On November 9, 2022, internal corrosion caused a pinhole on the water tank releasing 20 bbls of produced water into the impermeable containment. Approximately 1.5 bbls were recovered with a vacuum truck. XTO reported the release to NMOCD and submitted a Form C-141 on November 18, 2022. The release was assigned Incident Number NAPP2232251876. No liner inspection was conducted.

Because the entire contents of the releases were not recovered from the secondary containment, XTO proceeded with soil sampling to confirm the absence of soil impacts.

XTO Energy, Inc Closure Request West Brushy Fed 33 1H

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On October 12, 2020, a soil boring (C-04473), permitted through the New Mexico Office of the State Engineer (NMOSE), was advanced on the well pad west of the Site. Soil boring C-04473 was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. Groundwater was not encountered during drilling activites, confirming that depth to groundwater beneath the Site is more than 100 feet bgs. The soil boring used to determine depth to groundwater is depicted on Figure 1 and the Well Record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a potential emergent wetland, located approximately 585 feet southeast 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). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-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 ACTIVITIES

On November 22, 2022, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four samples (SS01 through SS04) were collected around the lined containment from a depth of 0.5 feet bgs. Ensolum personnel advanced one borehole (BH01) via hand-auger at an accessible location. Two discrete delineation soil samples (BH01 and BH01A) were collected from the borehole at depths of approximately 0.5 feet and 1 foot bgs. Soil from the delineation samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix B. The borehole was backfilled with soil removed and the tear in the liner was repaired. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix C.



XTO Energy, Inc Closure Request West Brushy Fed 33 1H

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated that COC concentrations are compliant with the Closure Criteria and the strictest Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

#### **CLOSURE REQUEST**

Site assessment and delineation activities were conducted at the Site to address two releases of produced water. Laboratory analytical results for delineation soil samples indicated all COCs concentrations were compliant with the Site Closure Criteria and the most stringent Closure Criteria. Based on the soil sample analytical results, no further remediation was required. As such, XTO respectfully requests closure for Incident Number NAPP2228753314 and NAPP2232251876. NMOCD notifications and correspondence is included in Appendix E.

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

Sincerely, **Ensolum, LLC** 

Anita Thapalia, P.G. Project Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Principal

cc: Garrett Green, XTO Shelby Pennington, XTO Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Soil Sample Locations
- Table 1
   Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic Soil Sampling Log
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications





**FIGURES** 

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# TABLES

.

# **ENSOLUM**

			West B	rushy Fed 33 1 X	TABLE 1 E ANALYTIC/ H & West Brus TO Energy, In County, New N	shy Draw 33 #1 c.	l Battery			
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 (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delin	eation Soil San	nples	•		•	•
BH01	11/22/2022	0.5'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	75.6
BH01A	11/22/2022	1'	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	288
SS01	11/22/2022	0.5'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	291
SS02	11/22/2022	0.5'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	24.2
SS03	11/22/2022	0.5'	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	260
SS04	11/22/2022	0.5'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	255

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

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# APPENDIX A

**Referenced Well Records** 

# WELL RECORD & LOG **OFFICE OF THE STATE ENGINEER**

			WELL R OFFICE OF T www.ose.state.	HE STAT						2020 OCT 27 PH 1: 08	
	OSE POD NO POD1 (B	•	0.)		ELL TAG ID NO.		OSE FILE NO( C-4473	š).			
OCATION	WELL OWN	ER NAME(			a		PHONE (OPTI	DNAL)			
WELL L	WELL OWN 6401 Holid		ig address Dr.				crry Midland		state TX	79707	ZIP
<b>GENERAL AND WELL LOCATION</b>	WELL LOCATIO (FROM GF	νs) μ	ATITUDE	GREES 32° 103°	59' 35	.72" <sub>N</sub> .46" W	* DATUM REG	REQUIRED: ONE TEN QUIRED: WGS 84			
1. GF			ING WELL LOCATION TO T25S R29E	STREET ADDRES	S AND COMMON LAND	AARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAII	ABLE	
	LICENSE NO 124		NAME OF LICENSED		kie D. Atkins			NAME OF WELL DR Atkins Eng			nc.
	DRILLING S 10/12		DRILLING ENDED 10/12/20		LETED WELL (FT) y well material	1	le depth (ft) 110	DEPTH WATER FIR:	ST ENCOUN n/a	ITERED (FT)	
NO	COMPLETE	D WELL IS:	ARTESIAN	T DRY HOLE	Shallow (UNC	ONFINED)		STATIC WATER LEV	/EL IN COM n/a	PLETED WE	ILL (FT)
MATIC	DRILLING F		AIR		ADDITIVES - SPI		R - SPECIFY:	Uolla	w Stem A	A	
FOR	DRILLING M	(feet bgl)		HAMMER	TERIAL AND/OR		R - SPECIF I:		1		<u> </u>
<b>CASING INFORMATION</b>	FROM	TO	BORE HOLE DIAM (inches)	(include eac	GRADE h casing string, and tions of screen)	CONN	ASING VECTION YPE ling diameter)	CASING INSIDE DIAM. (inches)	THIC	G WALL KNESS ches)	SLOT SIZE (inches)
& C	0	25	±8.5	Bo	ring- HSA						
LING	25	55	±4.5	Borin	g- Air Rotary	-				-	-
2. DRILLING											1
۲. ۱											
Y	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM. (inches)		ANNULAR SEAL M. L PACK SIZE-RANG			AMOUNT (cubic feet)		METHO PLACEN	
ANNULAR MATERIAL											
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ULA				· · · · · · · · · · · · · · · · · · ·							
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FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Ve	rsion 06/30/17)
FILE NO. C-4473	POD NO.	TRN NO. 677406	
LOCATION 433 T25.	SR24ESec33 WEL	LL TAG ID NO. NA	PAGE 1 OF 2

#### Released to Imaging: 4/5/2023 10:08:08 AM

Page	16	of	60
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	DEPTH () FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WAT	ND TYPE OF N ER-BEARING pplemental sh	CAVITIES O	R FRAG	CTURE ZONE	s		TER LING? / NO)	YIE W BE	IMATED LD FOR ATER- ARING ES (gpm)
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	1	17	15		e, Consolidated		_			Y	√ N		
	17	25	8	Sandstone, with						Y	√ N		
	25	30	5	Mudstone, cohesive, moderately consolidated, Redish-Brown						Y	√ N	<u> </u>	
	30	55	25	Sandstone, mod. con					own	Y	√ N		
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NOIS				-									
TEST; RIG SUPERVI	MISCELLA	NEOUS INF	ORMATION: TO	emporary well materi	als removed a	and the soil b	oring b	ackfilled using	ng drill	cutting	from to	tal dep	th to ten
SUPI				et below ground surf			tte cmp	s iroin ten iet	et delow	v ground	1 SUFTACE	; 10 sur.	lace.
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31: I													
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<b>v</b> i	Shane Eldri	dge											
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SIGNATURE	AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:												
	Jack Atk	ins		Ja	ackie D. Atkin	IS				10/2	5/2020		
و. 		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME						DATE		
FO	R OSE INTER	NAL USE		,, ,				WR-20 WE	LL REC	ORD &	LOG (Ve	rsion 04	, 5/30/2017)
		4473	, ,		POD NO.	1		TRN NO.	6		406		]
LO	CATION	433		T255	R29E	Sec33	WELL	, TAG ID NO.		NΑ	7	PAC	E 2 OF 2

John R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 677406 File Nbr: C 04473 Well File Nbr: C 04473 POD1

Nov. 18, 2020

TACOMA MORRISSEY LT ENVIRONMENTAL INC 508 WEST STEVENS CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 09/02/2020.

The Well Record was received in this office on 10/29/2020, stating that it had been completed on 10/12/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/02/2021.

If you have any questions, please feel free to contact us.

Singerely Andrew Dennis

(575)622-6521

drywell

# 2020-10-26\_C-4473POD1\_OSE\_Well Record and Log-wb-forsign

**Final Audit Report** 

2020-10-27

Created:	2020-10-27
Ву:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA_fnD1AtNBjHgBc1H0ehIMQdoVvHLvFdG

# "2020-10-26\_C-4473POD1\_OSE\_Well Record and Log-wb-forsi gn" History

Ð	Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-27 - 3:12:46 PM GMT- IP address: 69.21.248.123	NO OCT	
e,	Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-10-27 - 3:13:15 PM GMT	29 PN	
Ð	Email viewed by Jack Atkins (jack@atkinseng.com) 2020-10-27 - 3:13:54 PM GMT- IP address: 74.50.153.115	1:00	8a

- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2020-10-27 - 3:17:09 PM GMT - Time Source: server- IP address: 74.50.153.115
- Agreement completed. 2020-10-27 - 3:17:09 PM GMT





USGS Home Contact USGS Search USGS

## National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:		
5555 Water Resources	Site Information	~	United States	~	GO

#### Click to hideNews Bulletins

- ALERT! USGS will be performing an upgrade to their network on Thursday, November 17, 2022, starting at 10:00pm EST. During the maintenance period, the Water Data for the Nation web portal and water services will be accessible; however, delivery of the most recent time-series data and WaterAlert notifications will be disrupted. The maintenance period is not expected to exceed 4 hours, after which the backlog of time-series data will be processed and delivered.
- Water Data for the Nation Blog

# USGS 320532104001701 25S.29E.32.21111

Available data for this site SUMMARY OF ALL AVAILABLE DATA 🗸 GO

## **Well Site**

#### **DESCRIPTION:**

Latitude 32°05'32", Longitude 104°00'17" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 128 feet Land surface altitude: 2,988 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-03-11	1992-11-03	8

Received by OCD: 12/29/2022 2:48:13 PM

## <u>Revisions</u>

## OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data Inquiries</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency\_code=USGS&site\_no=320532104001701

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2022-11-15 17:29:13 EST 0.29 0.28 caww01





science for a changing world

National Water Information System: Web Interface

**USGS** Water Resources

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- ALERT! USGS will be performing an upgrade to their network on **Thursday, November 17, 2022, starting at 10:00pm EST**. During the maintenance period, the Water Data for the Nation web portal and water services will be accessible; however, delivery of the most recent time-series data and WaterAlert notifications will be disrupted. The maintenance period is not expected to exceed 4 hours, after which the backlog of time-series data will be processed and delivered.
- Water Data for the Nation Blog

Groundwater levels for the Nation

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

#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320532104001701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320532104001701 25S.29E.32.21111

Eddy County, New Mexico Latitude 32°05'32", Longitude 104°00'17" NAD27 Land-surface elevation 2,988 feet above NAVD88 The depth of the well is 128 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

<u>Table of data</u>

Tab-separated data

Graph of data

Reselect period

 Data Category:
 Geographic Area:

 Groundwater
 V

 United States

les

**USGS Home** 

✓ GO

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1949-03-11		D	62610		2871.10	NGVD29	1	Z			
1949-03-11		D	62611		2872.66	NAVD88	1	Z			
1949-03-11		D	72019	115.34			1	Z			
1958-08-19		D	62610		2887.81	NGVD29	1	Z			
1958-08-19		D	62611		2889.37	NAVD88	1	Z			
1958-08-19		D	72019	98.63			1	Z			
1959-03-24		D	62610		2887.84	NGVD29	1	Z			
1959-03-24		D	62611		2889.40	NAVD88	1	Z			
1959-03-24		D	72019	98.60			1	Z			
1978-01-13		D	62610		2891.21	NGVD29	1	Z			
1978-01-13		D	62611		2892.77	NAVD88	1	Z			
1978-01-13		D	72019	95.23			1	Z			
1983-02-01		D	62610		2890.81	NGVD29	1	Z			
1983-02-01		D	62611		2892.37	NAVD88	1	Z			
1983-02-01		D	72019	95.63			1				
1987-10-14		D	62610		2889.75	NGVD29	1				
1987-10-14		D	62611		2891.31	NAVD88	1				
1987-10-14		D	72019	96.69			1				
1988-04-06		D	62610		2889.51	NGVD29	1				
1988-04-06		D	62611		2891.07	NAVD88	1				
1988-04-06		D	72019	96.93			1				
1992-11-03		D	62610		2888.31	NGVD29	1				
1992-11-03		D	62611		2889.87	NAVD88	1				
1992-11-03		D	72019	98.13			1	S			

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-11-15 17:29:21 EST 0.29 0.25 nadww01



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# APPENDIX B

Photographic Log

Released to Imaging: 4/5/2023 10:08:08 AM





# APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 12/29/2022 2:48:13 PM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/2/2022 3:58:07 PM

# JOB DESCRIPTION

West Brushy Fed 331H SDG NUMBER 03E1558141

# **JOB NUMBER**

890-3549-1

FOR issey olum Id St. e 400 9701

Page 28 of 60

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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1

# **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

RAMER

Generated 12/2/2022 3:58:07 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

Laboratory Job ID: 890-3549-1 SDG: 03E1558141

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QC Association Summary	17
Lab Chronicle	20
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	28

	Definitions/Glossary		
Client: Ensolu Project/Site: W	m Vest Brushy Fed 331H	Job ID: 890-3549-1 SDG: 03E1558141	
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		
*-	LCS and/or LCSD is outside acceptance limits, low biased.		
S1-	Surrogate recovery exceeds control limits, low biased.		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
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			
	Detection Limit (DoD/DOE)		
DL, RA, RE, IN DLC	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		
LOD	Limit of Detection (DoD/DOE)		
LOD	Limit of Quantitation (DoD/DOE)		

MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA

MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL

- ML Minimum Level (Dioxin) MPN Most Probable Number
- MQL Method Quantitation Limit
- Not Calculated NC ND
  - Not Detected at the reporting limit (or MDL or EDL if shown)
- NEG Negative / Absent POS Positive / Present
- Practical Quantitation Limit PQL
- PRES Presumptive
- QC Quality Control
- RER Relative Error Ratio (Radiochemistry)
- RL Reporting Limit or Requested Limit (Radiochemistry)
- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

Job ID: 890-3549-1 SDG: 03E1558141

#### Job ID: 890-3549-1

#### Laboratory: Eurofins Carlsbad

#### Narrative

Job Narrative 890-3549-1

#### Receipt

The samples were received on 11/22/2022 1:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-3549-1), BH01A (890-3549-2), SS01 (890-3549-3), SS02 (890-3549-4), SS03 (890-3549-5) and SS04 (890-3549-6).

#### 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: The laboratory control sample (LCS) associated with preparation batch 880-40543 and analytical batch 880-40551 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

#### 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: SS03 (890-3549-5), SS04 (890-3549-6), (880-21878-A-1-B), (880-21878-A-1-C MS) and (880-21878-A-1-D MSD).

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

4

5

RL

0.00201

0.00201

0.00201

0.00402

0.00201

0.00402

Limits

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

11/29/22 16:02

Prepared

Page 33 of 60

Job ID: 890-3549-1 SDG: 03E1558141

#### **Client Sample ID: BH01**

Project/Site: West Brushy Fed 331H

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

Result Qualifier

<0.00201 U

<0.00201 U

<0.00201 U

<0.00402 U

<0.00201 U

<0.00402 U

%Recovery Qualifier

Date Collected: 11/22/22 10:30 Date Received: 11/22/22 13:47

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

### Lab Sample ID: 890-3549-1

Analyzed

12/02/22 12:11

12/02/22 12:11

12/02/22 12:11

12/02/22 12:11

12/02/22 12:11

12/02/22 12:11

Analyzed

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

5

4-Bromofluorobenzene (Surr)	105		70 - 130			11/29/22 16:02	12/02/22 12:11	1
1,4-Difluorobenzene (Surr)	95		70 - 130			11/29/22 16:02	12/02/22 12:11	1
- Method: TAL SOP Total BTEX - 1	otal BTEX Cal	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 - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/22 15:50	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		11/29/22 08:34	11/29/22 23:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/29/22 23:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/29/22 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			11/29/22 08:34	11/29/22 23:58	1
o-Terphenyl	131	S1+	70 - 130			11/29/22 08:34	11/29/22 23:58	1
Method: MCAWW 300.0 - Anions	1							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.6		4.96	mg/Kg			11/28/22 23:08	1
Client Sample ID: BH01A						Lab Sar	nple ID: 890-	3549-2
Date Collected: 11/22/22 11:10							Matri	x: Solid
Date Received: 11/22/22 13:47								
Sample Depth: 1'								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 12:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 12:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 12:37	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		11/29/22 16:02	12/02/22 12:37	1

#### Ethylbenzene m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 11/29/22 16:02 12/02/22 12:37 o-Xylene <0.00200 U 0.00200 mg/Kg 11/29/22 16:02 12/02/22 12:37 1 <0.00399 U 0.00399 Xylenes, Total mg/Kg 11/29/22 16:02 12/02/22 12:37 1 Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 70 - 130 11/29/22 16:02 12/02/22 12:37 101

4-Bromofluorobenzene (Surr)

**Eurofins Carlsbad** 

#### **Client Sample Results**

Limits

70 - 130

RL

RL

50.0

0.00399

Unit

Unit

mg/Kg

mg/Kg

Job ID: 890-3549-1 SDG: 03E1558141

Analyzed

12/02/22 12:37

Analyzed

12/02/22 16:23

Analyzed

11/30/22 15:50

#### **Client Sample ID: BH01A**

Project/Site: West Brushy Fed 331H

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

<50.0 U

101

<0.00399 U

Date Collected: 11/22/22 11:10 Date Received: 11/22/22 13:47

Client: Ensolum

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Sample Depth: 1'

1,4-Difluorobenzene (Surr)

Lab	Sample	ID:	890-3549-2
			Matrix: Solid

Prepared

11/29/22 16:02

Prepared

Prepared

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

1

		• • •						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *-	50.0	mg/Kg		11/29/22 08:34	11/30/22 00:23	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/30/22 00:23	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/30/22 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			11/29/22 08:34	11/30/22 00:23	1
o-Terphenyl	102		70 - 130			11/29/22 08:34	11/30/22 00:23	1
Analyte Chloride	Result 288	Qualifier	RL	Unit mg/Kg	D	Prepared	Analyzed 11/28/22 23:15	Dil Fac
Client Sample ID: SS01						Lab Sar	nple ID: 890-	3549-3
Date Collected: 11/22/22 11:15							Matri	ix: Solid
Date Received: 11/22/22 13:47								
Sample Depth: 0.5'								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
<b>—</b>								

#### **Client Sample ID: SS01**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 16:02	12/02/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			11/29/22 16:02	12/02/22 13:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130			11/29/22 16:02	12/02/22 13:04	1
Method: TAL SOP Total BTEX	- Total 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 16:23	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Eurofins Carlsbad** 

Job ID: 890-3549-1 SDG: 03E1558141

Matrix: Solid

Lab Sample ID: 890-3549-3

Lab Sample ID: 890-3549-4

Matrix: Solid

#### Client Sample ID: SS01

Project/Site: West Brushy Fed 331H

Date Collected: 11/22/22 11:15 Date Received: 11/22/22 13:47

Sample Depth: 0.5'

Client: Ensolum

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 08:34	11/30/22 00:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/29/22 08:34	11/30/22 00:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/22 08:34	11/30/22 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			11/29/22 08:34	11/30/22 00:47	1
o-Terphenyl	99		70 - 130			11/29/22 08:34	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	291		24.9	mg/Kg			11/28/22 23:22	5

#### Client Sample ID: SS02

#### Date Collected: 11/22/22 11:30 Date Received: 11/22/22 13:47

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 16:02	12/02/22 13:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/29/22 16:02	12/02/22 13:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/29/22 16:02	12/02/22 13:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/29/22 16:02	12/02/22 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/29/22 16:02	12/02/22 13:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/29/22 16:02	12/02/22 13:30	1
Method: SW846 8015 NM - Dies					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/30/22 15:50	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		11/29/22 08:34	11/30/22 01:13	1
	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/30/22 01:13	1
0 0 0	<50.0	0						
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0		50.0	mg/Kg		11/29/22 08:34	11/30/22 01:13	1
C10-C28)		U	50.0 <i>Limits</i>	mg/Kg		11/29/22 08:34 <b>Prepared</b>	11/30/22 01:13 Analyzed	1 Dil Fac

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11/30/22 01:13

11/29/22 08:34

5

o-Terphenyl

70 - 130

18 S1-

1

		Clier	it Sample Re	sults				
Client: Ensolum							Job ID: 890	
Project/Site: West Brushy Fed 331	н						SDG: 03E1	155814
Client Sample ID: SS02						Lab San	nple ID: 890-	3549-4
Date Collected: 11/22/22 11:30							Matri	x: Soli
Date Received: 11/22/22 13:47								
Sample Depth: 0.5'								
- Method: MCAWW 300.0 - Anion	s, Ion Chromato	ography - S	oluble					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	24.2		5.00	mg/Kg			11/28/22 23:28	
Client Sample ID: SS03						Lab San	nple ID: 890-	3549-
Date Collected: 11/22/22 11:45							-	x: Solid
Date Received: 11/22/22 13:47								
Sample Depth: 0.5'								
_ Method: SW846 8021B - Volatile	Organic Comp	ounde (CC	<b>\</b>					
Analyte		Qualifier	) RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 13:56	
Toluene	< 0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 13:56	
Ethylbenzene	<0.00200		0.00200	mg/Kg		11/29/22 16:02	12/02/22 13:56	
m-Xylene & p-Xylene	<0.00399		0.00399	mg/Kg		11/29/22 16:02	12/02/22 13:56	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/29/22 16:02	12/02/22 13:56	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/29/22 16:02	12/02/22 13:56	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			11/29/22 16:02	12/02/22 13:56	
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 13:56	
_ Method: TAL SOP Total BTEX -	Total BTEX Cal	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/02/22 16:23	·
Mothod: CW04C 004E NM Disc								
Method: SW846 8015 NM - Dies Analyte		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			11/30/22 15:50	
Mothod: C\W94C 904ED NM Die								
Method: SW846 8015B NM - Die Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics		-	49.9			11/29/22 08:34	11/30/22 01:37	
(GRO)-C6-C10		2	10.0					
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		11/29/22 08:34	11/30/22 01:37	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/29/22 08:34	11/30/22 01:37	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	127		70 - 130			11/29/22 08:34	11/30/22 01:37	
o-Terphenyl	144	S1+	70 - 130			11/29/22 08:34	11/30/22 01:37	
- Method: MCAWW 300.0 - Anion	s, Ion Chromato	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Chloride 24.9 11/29/22 10:57 260 mg/Kg

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.
Job ID: 890-3549-1 SDG: 03E1558141

# **Client Sample ID: SS04**

Project/Site: West Brushy Fed 331H

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

Date Collected: 11/22/22 12:00 Date Received: 11/22/22 13:47

Sample Depth: 0.5'

Client: Ensolum

Lab Sample ID: 890-3549-6

Matrix: Solid

5

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 14:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 14:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 14:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/29/22 16:02	12/02/22 14:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/29/22 16:02	12/02/22 14:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/29/22 16:02	12/02/22 14:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			11/29/22 16:02	12/02/22 14:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/29/22 16:02	12/02/22 14:22	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T L L DTEX	< 0.00402	U	0.00402	mg/Kg			12/02/22 16:23	1
Total BTEX								
	l Range Organ	ics (DRO) (	GC)					
: Method: SW846 8015 NM - Diesel	• •	<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte	• •	Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/30/22 15:50	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH	Result <50.0	Qualifier U	<b>RL</b> 50.0		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	<b>RL</b> 50.0		<u>D</u> 	Prepared		
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier U nics (DRO) Qualifier	(GC)	mg/Kg		<u>·</u>	11/30/22 15:50	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 el Range Orga Result	Qualifier U nics (DRO) Qualifier U *-	(GC) RL	mg/Kg Unit		Prepared	11/30/22 15:50	1 Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Orga Result Result <50.0	Qualifier U nics (DRO) Qualifier U*- U	RL           50.0           (GC)           RL           50.0	mg/Kg Unit mg/Kg		Prepared 11/29/22 08:34	Analyzed           11/30/22 02:02	1 Dil Fac 1
Method: SW846 8015 NM - Diesel 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)	el Range Orga Result Sel Range Orga Result Solo Solo	Qualifier U nics (DRO) Qualifier U*- U U	RL           50.0           (GC)           RL           50.0           50.0           50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:34 11/29/22 08:34	Analyzed           11/30/22 02:02           11/30/22 02:02	1 Dil Fac 1
Method: SW846 8015 NM - Diesel 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	RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:34 11/29/22 08:34 11/29/22 08:34	Analyzed           11/30/22 15:50           Analyzed           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diesel 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           <50.0	Qualifier U nics (DRO) Qualifier U*- U U U Qualifier S1-	RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0           Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:34 11/29/22 08:34 11/29/22 08:34 Prepared	Analyzed           11/30/22 15:50           Analyzed           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02           Analyzed	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diesel 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 o-Terphenyl	Result           <50.0	Qualifier U nics (DRO) Qualifier U*- U U U Qualifier S1- S1-	RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:34 11/29/22 08:34 11/29/22 08:34 Prepared 11/29/22 08:34	Analyzed           11/30/22 15:50           Analyzed           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02           Analyzed           11/30/22 02:02	1 Dil Fac 1 1 1
Method: SW846 8015 NM - Diesel 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 U U Qualifier S1- S1-	RL           50.0           (GC)           RL           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           50.0           70.130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/29/22 08:34 11/29/22 08:34 11/29/22 08:34 Prepared 11/29/22 08:34	Analyzed           11/30/22 15:50           Analyzed           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02           11/30/22 02:02           Analyzed           11/30/22 02:02	1 Dil Fac 1 1 1

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12/2/2022

Project/Site: West Brushy Fed 331H

#### Job ID: 890-3549-1 SDG: 03E1558141

Prep Type: Total/NA

Prep Type: Total/NA

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

Matrix: Solid

Client: Ensolum

BFB1         DFBZ1           Lab Sample ID         Client Sample ID         (70-130)         (70-130)           890-3549-1         BH01         105         95           890-3549-1 MS         BH01         114         102           890-3549-1 MSD         BH01         104         101           890-3549-2         BH01A         101         101           890-3549-3         SS01         105         87           890-3549-4         SS02         121         99           890-3549-5         SS03         110         94           890-3549-6         SS04         115         94           LCS 880-40625/1-A         Lab Control Sample         105         100	
890-3549-1       BH01       105       95         890-3549-1 MS       BH01       114       102         890-3549-1 MSD       BH01       104       101         890-3549-2       BH01A       101       101         890-3549-3       SS01       105       87         890-3549-4       SS02       121       99         890-3549-5       SS03       110       94         890-3549-6       SS04       115       94	
890-3549-1 MSBH01114102890-3549-1 MSDBH01104101890-3549-2BH01A101101890-3549-3SS0110587890-3549-4SS0212199890-3549-5SS0411094890-3549-6SS0411594	
890-3549-1 MSDBH01104101890-3549-2BH01A101101890-3549-3SS0110587890-3549-4SS0212199890-3549-5SS0311094880-3549-6SS0411594	
890-3549-2BH01A101101890-3549-3SS0110587890-3549-4SS0212199890-3549-5SS0311094890-3549-6SS0411594	
890-3549-3SS0110587890-3549-4SS0212199890-3549-5SS0311094890-3549-6SS0411594	
890-3549-4SS0212199890-3549-5SS0311094890-3549-6SS0411594	
890-3549-5         SS03         110         94           890-3549-6         SS04         115         94	
890-3549-6 SS04 115 94	
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	
Surrogate Legend	
BFB = 4-Bromofluorobenzene (Surr)	

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21910-A-1-C MS	Matrix Spike	106	119
880-21910-A-1-D MSD	Matrix Spike Duplicate	117	120
890-3549-1	BH01	116	131 S1+
890-3549-2	BH01A	103	102
890-3549-3	SS01	102	99
890-3549-4	SS02	23 S1-	18 S1-
890-3549-5	SS03	127	144 S1+
890-3549-6	SS04	54 S1-	54 S1-
LCS 880-40543/2-A	Lab Control Sample	139 S1+	155 S1+
LCSD 880-40543/3-A	Lab Control Sample Dup	131 S1+	158 S1+
MB 880-40543/1-A	Method Blank	133 S1+	171 S1+

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Lab Sample ID: MB 880-40625/5-A Matrix: Solid Analysis Batch: 40842				
-	MB	МВ		
Analyte	Result	Qualifier	RL	Unit
Benzene	<0.00200	U	0.00200	mg/Kg

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 16:02	12/02/22 11:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130		11/29/22 16:02	12/02/22 11:45	1

#### Lab Sample ID: LCS 880-40625/1-A Matrix: Solid

#### Analysis Batch: 40842

	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	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

#### Matrix: Solid

Analysis Batch: 40842							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	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

#### Lab Sample ID: 890-3549-1 MS Matrix: Solid

#### Analysis Batch: 40842

Analysis Batch: 40842									Pre	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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**Client Sample ID: BH01** 

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 40625

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40625

Dil Fac

**Client Sample ID: Method Blank** 

Analyzed

12/02/22 11:45

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

D

Prepared

11/29/22 16:02

MS MS

MSD MSD

0.09136

0.09165

0.08677

0.1732

0.08889

Result Qualifier

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Result

0.1009

0.2022

0.1035

Spike

Added

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

Spike

Added

0.0990

0.0990

0.0990

0.198

0.0990

Client: Ensolum Project/Site: West Brushy Fed 331H

Lab Sample ID: 890-3549-1 MS

Analysis Batch: 40842

4-Bromofluorobenzene (Surr)

Analysis Batch: 40842

Lab Sample ID: 890-3549-1 MSD

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Ethylbenzene

m-Xylene & p-Xylene

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

Sample Sample

<0.00201

%Recovery

<0.00402 U

<0.00201 U

114

102

**Result Qualifier** 

U

MS MS

Sample Sample

<0.00201

<0.00201

< 0.00201

<0.00402 U

<0.00201 U

Result Qualifier

U

U

U

Qualifier

Job ID: 890-3549-1 SDG: 03E1558141

**Client Sample ID: BH01** 

%Rec

Limits

70 - 130

70 - 130

70 - 130

Limits

70 - 130

70 - 130

70 - 130

70 - 130

70 - 130

%Rec

101

101

104

%Rec

92

93

88

87

90

D

D

Prep Type: Total/NA

Prep Batch: 40625

# 7

Client Sample IE	): BH01
Prep Type: T	otal/NA
Prep Batch	: 40625
%Rec	RPD

ample ID: BH01 Type: Total/NA						
эр	Batch:	40625 RPD				
	RPD	Limit				
	11	35				
	15	35	ï			

15

15

15

PD	
mit	
35	
35	
35	
35	
35	

MSD MSD Surrogate Qualifier Limits %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 880-40543/1-/ Matrix: Solid Analysis Batch: 40551	A					Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/29/22 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/29/22 15:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/29/22 08:34	11/29/22 15:35	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			11/29/22 08:34	11/29/22 15:35	1
o-Terphenyl	171	S1+	70 - 130			11/29/22 08:34	11/29/22 15:35	1
Lab Sample ID: LCS 880-40543/2	-A				c	lient Sample I	D: Lab Control	Sample

#### Lab Sample ID: LCS 880-40543/2-A Matrix: Solid Analysis Batch: 40551

Analysis Batch: 40551							Prep	Batch: 40543
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	621.1	*_	mg/Kg		62	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1084		mg/Kg		108	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Client: Ensolum Project/Site: West Brushy Fed 331H

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

Lab Sample ID: LCS 880-40	543/2-A						Client	Sample	BID: Lab Co	ontrol S	ample
Matrix: Solid										Type: To	
Analysis Batch: 40551										Batch:	
·											
		LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	139	S1+	70 - 130								
o-Terphenyl	155	S1+	70 - 130								
Lab Sample ID: LCSD 880-4	10543/3-A					Clie	nt Sam	ple ID:	Lab Contro	I Sampl	le Dup
Matrix: Solid								-	Prep 1	Type: To	tal/NA
Analysis Batch: 40551										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	737.1		mg/Kg		74	70 - 130	17	20
(GRO)-C6-C10						0 0					
Diesel Range Organics (Over			1000	1125		mg/Kg		113	70 - 130	4	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl		S1+	70 - 130								
-	100	57.	70 - 750								
	A-1-C MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: To	-
Analysis Batch: 40551										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0		999	913.0		mg/Kg		89	70 - 130		
(GRO)-C6-C10		-									
Diesel Range Organics (Over	<50.0	U	999	1231		mg/Kg		123	70 - 130		
C10-C28)											
	МС	MC									
0		MS	1								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	106		70 <u>-</u> 130								
o-Terphenyl	119		70 - 130								
Lab Sample ID: 880-21910-/	A-1-D MSD					CI	ient Sa	ample IC	): Matrix S	oike Dup	olicate
Matrix: Solid										Type: To	
Analysis Batch: 40551										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0		997	888.3		mg/Kg		86	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	997	1240		mg/Kg		124	70 - 130	1	20
C10-C28)											
	MSD	MSD									
		• ····									
Surrogate	%Recovery	Qualifier	Limits								

5

Job ID: 890-3549-1 SDG: 03E1558141

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117

120

1-Chlorooctane

o-Terphenyl

70 - 130

70 \_ 130

# **QC Sample Results**

Job ID: 890-3549-1 SDG: 03E1558141

Client: Ensolum Project/Site: West Brushy Fed 331H

# Method: 300.0 - Anions, Ion Chromatography

Matrix: Solid	/1 <b>-A</b>										Client S	ample ID: I Prep	Method Type: S	
Analysis Batch: 40439														
-		ΜВ	мв											
Analyte	Re	esult	Qualifier		RL		Unit		D	Pr	repared	Analyz	ed	Dil Fac
Chloride	<	5.00	U		5.00		mg/Kg	J				11/28/22	20:08	1
Lab Sample ID: LCS 880-4037	1/2-A								Cli	ent	Sample	ID: Lab Co	ontrol S	Sample
Matrix: Solid													Type: S	-
Analysis Batch: 40439														
				Spike		LCS	LCS					%Rec		
Analyte				Added			Qualifier	Unit		D	%Rec	Limits		
Chloride				250		265.7		mg/Kg			106	90 - 110		
Lab Sample ID: LCSD 880-403	71/3-A							Cli	ent S	am	ple ID: l	Lab Contro	I Samp	le Dup
Matrix: Solid													Type: S	
Analysis Batch: 40439														
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added			Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		267.9		mg/Kg			107	90 _ 110	1	20
Lab Sample ID: 890-3548-A-5-/ Matrix: Solid	AMS										Client	Sample ID Prep	: Matrix Type: S	
Analysis Batch: 40439														
	Sample	Samp	ole	Spike		MS	MS					%Rec		
Analyte	Result	Quali	fier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	25.5			249		282.8		mg/Kg			104	90 - 110		
Lab Sample ID: 890-3548-A-5-/ Matrix: Solid	A MSD							(	Clien	t Sa	imple ID	): Matrix Sp Prep	oike Du Type: S	-
and the second		Samp	ble	Spike		MSD	MSD	(	Client	t Sa	imple ID	Prep		Soluble
Matrix: Solid Analysis Batch: 40439	A MSD Sample Result	-		Spike Added			MSD Qualifier	Unit	Client	t Sa	mple ID %Rec			Soluble
Matrix: Solid	Sample	-							Client		-	Prep %Rec	Type: S	RPE Limi
Matrix: Solid Analysis Batch: 40439 Analyte Chloride	Sample Result 25.5	-		Added		Result		Unit	Client	<u>D</u>	%Rec 104	Prep           %Rec           Limits           90 - 110	<b>Type: S RPD</b> 1	RPE Limi
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386	Sample Result 25.5	-		Added		Result		Unit		<u>D</u>	%Rec 104	Prep %Rec Limits 90 - 110	Type: S	RPE Limi 20
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid	Sample Result 25.5	-		Added		Result		Unit	Client	<u>D</u>	%Rec 104	Prep %Rec Limits 90 - 110	<b>Type: S RPD</b> 1	RPD Limit 20
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid	Sample Result 25.5	Quali	ifier	Added		Result		Unit	Client	<u>D</u>	%Rec 104	Prep %Rec Limits 90 - 110	Type: S	RPD Limit 20
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550	Sample Result 25.5 /1-A	Quali MB	ifier	Added	RL	Result		Unit	D	<u>D</u> .	%Rec 104 Client S	Prep %Rec Limits 90 - 110 Gample ID: Prep	Type: S RPD 1 Method Type: S	RPD Limit 20 I Blank Soluble
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386	Sample Result 25.5 /1-A	Quali MB	ifier MB Qualifier	Added	<b>RL</b> 5.00	Result	Qualifier	Unit mg/Kg		<u>D</u> .	%Rec 104	Prep %Rec Limits 90 - 110	Type: S <u>RPD</u> 1 Method Type: S red	RPD Limit 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added		Result	Qualifier	Unit mg/Kg	<u>D</u>	D Pr	%Rec 104 Client S	Prep %Rec Limits 90 - 110 cample ID:   Prep 	Type: S <u>RPD</u> 1 Method Type: S red 09:19	RPC Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added		Result	Qualifier	Unit mg/Kg	<u>D</u>	D Pr	%Rec 104 Client S	Prep %Rec Limits 90 - 110 ample ID: 1 Prep 	Type: S <u>RPD</u> 1 Method Type: S red 09:19 - ontrol S	RPC Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386 Matrix: Solid	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added		Result	Qualifier	Unit mg/Kg	<u>D</u>	D Pr	%Rec 104 Client S	Prep %Rec Limits 90 - 110 ample ID: 1 Prep 	Type: S <u>RPD</u> 1 Method Type: S red 09:19	RPC Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386 Matrix: Solid	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249		Result 284.4	Qualifier Unit mg/Kg	Unit mg/Kg	<u>D</u>	D Pr	%Rec 104 Client S	Prep %Rec Limits 90 - 110 Gample ID: 1 Prep Analyz 11/29/22 ( Prep	Type: S <u>RPD</u> 1 Method Type: S red 09:19 - ontrol S	RPC Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386 Matrix: Solid Analysis Batch: 40550	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added		Result 284.4	Qualifier	Unit mg/Kg	<u>D</u>	D Pr	%Rec 104 Client S	Prep %Rec Limits 90 - 110 ample ID: 1 Prep 	Type: S <u>RPD</u> 1 Method Type: S red 09:19 - ontrol S	RPD Limit 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40380 Matrix: Solid Analysis Batch: 40550 Analyte	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249		Result 284.4	Qualifier Unit mg/Kg	Unit mg/Kg	<u>D</u>	Pr ent	%Rec 104 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: I Prep Analyz 11/29/22 ( PID: Lab Co Prep %Rec	Type: S <u>RPD</u> 1 Method Type: S red 09:19 - ontrol S	RPD Limit 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249 		Result 284.4 LCS Result	Qualifier Unit mg/Kg	Unit mg/Kg	D Cli	D Pr ent	%Rec 104 Client S repared Sample %Rec 97	Prep           %Rec           Limits           90 - 110           Gample ID:           Prep           Analyz           11/29/22 0           ID:         Lab Co           Prep           %Rec           Limits           90 - 110	Type: S <u>RPD</u> 1 Method Type: S 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Coluble RPC Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCSD 880-403	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249 		Result 284.4 LCS Result	Qualifier Unit mg/Kg	Unit mg/Kg	D Cli	D Pr ent	%Rec 104 Client S repared Sample %Rec 97	Prep %Rec Limits 90 - 110 ample ID: I Prep Analyz 11/29/22 0 Prep %Rec Limits 90 - 110 Lab Contro	Type: S RPD 1 Method Type: S ced 09:19 Type: S  ontrol S Type: S  ol Samp	Soluble RPD Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40380 Matrix: Solid Analyte Chloride Lab Sample ID: LCSD 880-403 Matrix: Solid	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249 		Result 284.4 LCS Result	Qualifier Unit mg/Kg	Unit mg/Kg	D Cli	D Pr ent	%Rec 104 Client S repared Sample %Rec 97	Prep %Rec Limits 90 - 110 ample ID: I Prep Analyz 11/29/22 0 Prep %Rec Limits 90 - 110 Lab Contro	Type: S <u>RPD</u> 1 Method Type: S 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Soluble RPD Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCSD 880-403 Matrix: Solid	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249 Spike Added 250		LCS Result 241.4	Qualifier Unit mg/Kg LCS Qualifier	Unit mg/Kg	D Cli	D Pr ent	%Rec 104 Client S repared Sample %Rec 97	Prep %Rec Limits 90 - 110 ample ID: I Prep Analyz 11/29/22 0 BID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep	Type: S RPD 1 Method Type: S ced 09:19 Type: S  ontrol S Type: S  ol Samp	RPD Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble
Matrix: Solid Analysis Batch: 40439 Analyte Chloride Lab Sample ID: MB 880-40386 Matrix: Solid Analysis Batch: 40550 Analyte Chloride Lab Sample ID: LCS 880-40380 Matrix: Solid Analysis Batch: 40550 Analyte	Sample <u>Result</u> 25.5 /1-A 	Quali MB esult	ifier MB Qualifier	Added 249 		LCS Result 241.4	Qualifier Unit mg/Kg	Unit mg/Kg	D Cli	D Pr ent	%Rec 104 Client S repared Sample %Rec 97	Prep %Rec Limits 90 - 110 ample ID: I Prep Analyz 11/29/22 0 Prep %Rec Limits 90 - 110 Lab Contro	Type: S RPD 1 Method Type: S ced 09:19 Type: S  ontrol S Type: S  ol Samp	Soluble RPD Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble

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Client: Ensolum Project/Site: West Brushy Fed 331H Job ID: 890-3549-1 SDG: 03E1558141

## Method: 300.0 - Anions, Ion Chromatography

Analysis Batch: 40550	Comple	Commis	Califo	ме	ме				% Dee			
Analyte	-	Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	16700		12500	33150		mg/Kg		132	90 - 110			
ab Sample ID: 880-21878-	A-1-D MSD					CI	ient Sa	ample IC	D: Matrix S	pike Dup	licate	j
Aatrix: Solid									Prep	Type: So	oluble	1
Analysis Batch: 40550												
	-	Sample	Spike		MSD				%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
									20 110			
	16700	F1 -	12500	33850	F1	mg/Kg		137	90 - 110	2	20	
			12500	33850	F1	mg/Kg		137	90 - 110	2	20	
		F1 -	12500	33850	F1	mg/Kg		137	90 - 110	2	20	
		F1 -	12500	33850	F1	mg/Kg		137	90 - 110	2	20	
		F1 -	12500	33850	F1	mg/Kg		137	90 - 110	2	20	
<b>Analyte</b> Chloride		F1 -	12500	33850	F1	mg/Kg		137	90 - 110	2	20	

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# **QC Association Summary**

Client: Ensolum Project/Site: West Brushy Fed 331H Job ID: 890-3549-1 SDG: 03E1558141

# **GC VOA**

#### Prep Batch: 40625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3549-1	BH01	Total/NA	Solid	5035	
890-3549-2	BH01A	Total/NA	Solid	5035	
890-3549-3	SS01	Total/NA	Solid	5035	
890-3549-4	SS02	Total/NA	Solid	5035	
890-3549-5	SS03	Total/NA	Solid	5035	
890-3549-6	SS04	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	
890-3549-1 MS	BH01	Total/NA	Solid	5035	
890-3549-1 MSD	BH01	Total/NA	Solid	5035	

#### Analysis Batch: 40842

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3549-1	BH01	Total/NA	Solid	8021B	40625
890-3549-2	BH01A	Total/NA	Solid	8021B	40625
890-3549-3	SS01	Total/NA	Solid	8021B	40625
890-3549-4	SS02	Total/NA	Solid	8021B	40625
890-3549-5	SS03	Total/NA	Solid	8021B	40625
890-3549-6	SS04	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
890-3549-1 MS	BH01	Total/NA	Solid	8021B	40625
890-3549-1 MSD	BH01	Total/NA	Solid	8021B	40625

#### Analysis Batch: 40911

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3549-1	BH01	Total/NA	Solid	Total BTEX	
890-3549-2	BH01A	Total/NA	Solid	Total BTEX	
890-3549-3	SS01	Total/NA	Solid	Total BTEX	
890-3549-4	SS02	Total/NA	Solid	Total BTEX	
890-3549-5	SS03	Total/NA	Solid	Total BTEX	
890-3549-6	SS04	Total/NA	Solid	Total BTEX	

# GC Semi VOA

#### Prep Batch: 40543

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3549-1	BH01	Total/NA	Solid	8015NM Prep	
890-3549-2	BH01A	Total/NA	Solid	8015NM Prep	
890-3549-3	SS01	Total/NA	Solid	8015NM Prep	
890-3549-4	SS02	Total/NA	Solid	8015NM Prep	
890-3549-5	SS03	Total/NA	Solid	8015NM Prep	
890-3549-6	SS04	Total/NA	Solid	8015NM Prep	
MB 880-40543/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40543/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40543/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21910-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21910-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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# **QC Association Summary**

Client: Ensolum Project/Site: West Brushy Fed 331H Job ID: 890-3549-1 SDG: 03E1558141

# GC Semi VOA

#### Analysis Batch: 40551

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-3549-1	BH01	Total/NA	Solid	8015B NM	40543
90-3549-2	BH01A	Total/NA	Solid	8015B NM	40543
90-3549-3	SS01	Total/NA	Solid	8015B NM	40543
90-3549-4	SS02	Total/NA	Solid	8015B NM	40543
90-3549-5	SS03	Total/NA	Solid	8015B NM	40543
90-3549-6	SS04	Total/NA	Solid	8015B NM	40543
IB 880-40543/1-A	Method Blank	Total/NA	Solid	8015B NM	40543
CS 880-40543/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40543
CSD 880-40543/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40543
80-21910-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40543
80-21910-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40543

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3549-1	BH01	Total/NA	Solid	8015 NM	
890-3549-2	BH01A	Total/NA	Solid	8015 NM	
890-3549-3	SS01	Total/NA	Solid	8015 NM	
890-3549-4	SS02	Total/NA	Solid	8015 NM	
890-3549-5	SS03	Total/NA	Solid	8015 NM	
890-3549-6	SS04	Total/NA	Solid	8015 NM	
-					

# HPLC/IC

#### Leach Batch: 40371

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3549-1	BH01	Soluble	Solid	DI Leach	
890-3549-2	BH01A	Soluble	Solid	DI Leach	
890-3549-3	SS01	Soluble	Solid	DI Leach	
890-3549-4	SS02	Soluble	Solid	DI Leach	
MB 880-40371/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40371/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40371/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3548-A-5-A MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3548-A-5-A MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Leach Batch: 40386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3549-5	SS03	Soluble	Solid	DI Leach	
890-3549-6	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	
880-21878-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-21878-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 40439

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3549-1	BH01	Soluble	Solid	300.0	40371
890-3549-2	BH01A	Soluble	Solid	300.0	40371
890-3549-3	SS01	Soluble	Solid	300.0	40371
890-3549-4	SS02	Soluble	Solid	300.0	40371

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# **QC Association Summary**

Client: Ensolum Project/Site: West Brushy Fed 331H

# HPLC/IC (Continued)

#### Analysis Batch: 40439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40371/1-A	Method Blank	Soluble	Solid	300.0	40371
LCS 880-40371/2-A	Lab Control Sample	Soluble	Solid	300.0	40371
LCSD 880-40371/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40371
890-3548-A-5-A MS	Matrix Spike	Soluble	Solid	300.0	40371
890-3548-A-5-A MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40371

#### Analysis Batch: 40550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	8
890-3549-5	SS03	Soluble	Solid	300.0	40386	
890-3549-6	SS04	Soluble	Solid	300.0	40386	9
IB 880-40386/1-A	Method Blank	Soluble	Solid	300.0	40386	
CS 880-40386/2-A	Lab Control Sample	Soluble	Solid	300.0	40386	
CSD 880-40386/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40386	
80-21878-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	40386	
80-21878-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40386	

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# Job ID: 890-3549-1 SDG: 03E1558141

Project/Site: West Brushy Fed 331H

Job ID: 890-3549-1 SDG: 03E1558141

# Lab Sample ID: 890-3549-1 Matrix: Solid

Lab Sample ID: 890-3549-2

Lab Sample ID: 890-3549-3

Lab Sample ID: 890-3549-4

Date Collected: 11/22/22 10:30 Date Received: 11/22/22 13:47

**Client Sample ID: BH01** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 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 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40911	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40725	11/30/22 15:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40543	11/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40551	11/29/22 23:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40439	11/28/22 23:08	СН	EET MID

# **Client Sample ID: BH01A**

#### Date Collected: 11/22/22 11:10 Date Received: 11/22/22 13:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40911	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40725	11/30/22 15:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40543	11/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40551	11/30/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40439	11/28/22 23:15	СН	EET MID

# **Client Sample ID: SS01**

#### Date Collected: 11/22/22 11:15 Date Received: 11/22/22 13:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 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 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40911	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40725	11/30/22 15:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	40543	11/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40551	11/30/22 00:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	40439	11/28/22 23:22	СН	EET MID

#### **Client Sample ID: SS02** Date Collected: 11/22/22 11:30 Date Received: 11/22/22 13:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40911	12/02/22 16:23	SM	EET MID

**Eurofins Carlsbad** 

Matrix: Solid

Matrix: Solid

5 6

Project/Site: West Brushy Fed 331H

Job ID: 890-3549-1 SDG: 03E1558141

# Lab Sample ID: 890-3549-4 Matrix: Solid

Lab Sample ID: 890-3549-5

Matrix: Solid

Date Collected: 11/22/22 11:30 Date Received: 11/22/22 13:47

**Client Sample ID: SS02** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			40725	11/30/22 15:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40543	11/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40551	11/30/22 01:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	40371	11/28/22 08:37	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40439	11/28/22 23:28	СН	EET MID

# Client Sample ID: SS03

#### Date Collected: 11/22/22 11:45 Date Received: 11/22/22 13:47

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	40625	11/29/22 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40842	12/02/22 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40911	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40725	11/30/22 15:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40543	11/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40551	11/30/22 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		5			40550	11/29/22 10:57	SMC	EET MID

#### **Client Sample ID: SS04**

Date Collected: 11/22/22 12:00 Date Received: 11/22/22 13:47 Lab Sample ID: 890-3549-6

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 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40911	12/02/22 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			40725	11/30/22 15:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40543	11/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40551	11/30/22 02:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	40386	11/28/22 08:56	СН	EET MID
Soluble	Analysis	300.0		5			40550	11/29/22 11:05	SMC	EET MID

#### Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Project/Site: West Brushy Fed 331H

Laboratory: Eurofins Midland

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

thority	F	Program	Identification Number	Expiration Date
xas	1	NELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, I	but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o		Matrix	Analyte	
Analysis Method	fer certification . Prep Method	Matrix	Analyte	
6 ,		Matrix Solid Solid	Analyte Total TPH Total BTEX	

12/2/2022

Job ID: 890-3549-1 SDG: 03E1558141

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B 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
3015NM Prep	Microextraction	SW846	EET MID
OI 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: West Brushy Fed 331H Job ID: 890-3549-1 SDG: 03E1558141

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
0-3549-1	BH01	Solid	11/22/22 10:30	11/22/22 13:47	0.5'
0-3549-2	BH01A	Solid	11/22/22 11:10	11/22/22 13:47	1'
90-3549-3	SS01	Solid	11/22/22 11:15	11/22/22 13:47	0.5'
90-3549-4	SS02	Solid	11/22/22 11:30	11/22/22 13:47	0.5'
0-3549-5	SS03	Solid	11/22/22 11:45	11/22/22 13:47	0.5'
0-3549-6	SS04	Solid	11/22/22 12:00	11/22/22 13:47	0.5'

Curroning         Environment Testing         Issue and the second and the train decade and tr			5 Mars	ce/cc/III	Sty	renold		8
CHICPTINS       Environment Testing       Marca Critical Status	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signat	Signature)	Relinquished by: (
Environment Testing       unage transplacedo files to for the transplace files to for the transplacedo f		l conditions the control fously negotiated.	and subcontractors. It assigns standard terms and nt if such losses are due to circumstances beyond analyzed. These terms will be enforced unless pre-	Eurofins Xenco, its affiliates penses incurred by the clie to Eurofins Xenco, but not	order from client company to sponsibility for any losses or e \$5 for each sample submittee	es constitutes a valid purchase les and shall not assume any re o each project and a charge of	ment and relinquishment of sampl be liable only for the cost of samp h charge of \$85.00 will be applied i	itice: Signature of this docu service. Eurofins Xenco will Eurofins Xenco. A minimur
Funce function     Name function     None function <th< td=""><td>n U V Zn 0 /7471</td><td>li K Se</td><td>Cd Ca Cr Co Cu Fe Pb Mg M d Cr Co Cu Pb Mn Mo Ni Se <i>i</i></td><td>Sb As Ba Be B Sb As Ba Be C</td><td>PPM Texas 11 AI SPLP 6010 : 8RCR/</td><td>8RCRA 13 lyzed TCLP</td><td>) 200.8 / 6020: nd Metal(s) to be ana</td><td>Total 200.7 / 601C ircle Method(s) a</td></th<>	n U V Zn 0 /7471	li K Se	Cd Ca Cr Co Cu Fe Pb Mg M d Cr Co Cu Pb Mn Mo Ni Se <i>i</i>	Sb As Ba Be B Sb As Ba Be C	PPM Texas 11 AI SPLP 6010 : 8RCR/	8RCRA 13 lyzed TCLP	) 200.8 / 6020: nd Metal(s) to be ana	Total 200.7 / 601C ircle Method(s) a
Environment Testing       Human Transition       Human Testing       Human Transition       Work Order Visition       Work Order Visition         Name       1								
Environment Testing       Human (XB) 246-020       Human (XB) 246-020       Monte (X								
Environment Testing       Human Tr (281) 246-200. Date, Tr (241908-2000       Work Order No::::::::::::::::::::::::::::::::::::								
Environment Testing       Housen TX (281) 240-430. Dalas, TX (214) 902-800       Work Order No:         Nanger:       1 24-0 max       VC/CSSL2       Bit In: III allianad, TX (231) 240-430. Dalas, TX (214) 902-800       Work Order No:       Pige       Malanad, TX (231) 240-430. Dalas, TX (214) 902-800         Nanger:       1 24-0 max       VC/CSSL2       Bit In: III allianad, TX (213) 201-201. Dalas, TX (214) 902-3019       Work Order No:       Pige       Moland, TX (213) 201-201. Dalas, TX (214) 902-3019         Nanger:       1 24-0 max       VC/CSSL2       Bit In: III allianad, TX (213) 201-201. Dalas, TX (214) 902-3019       Work Order Comments       Pige       Moland, TX (213) 201-201. Dalas, TX (214) 902-3019         Name:       Colored Alliana, TX (214) 201-201. Dalas       Enalt       VC/CSL2       State of Poget:       Pige       Boomments         Number:       CSL2       CSL3       Trang Blank       Yes No       Pinalt	A15225124				2	11-20-1110		DHo/T
Europeins       Invironment Testing       Houtern TX (281) 204-400, Dalls, TX (281) 902-9000       Work Order No.         Malada TX (431) 204-400, Malan, TX (281) 983-344       Expon TX (281) 983-344       Expon TX (281) 983-344       Work Order No.         Malada TX (431) 204-400, Malan, TX (281) 985-344       Labox, TX (281) 985-344       Labox, TX (281) 983-344       Work Order Comments         Malada TX (431) 204-400, Malan, TX (281) 985-344       Labox, TX (281) 985-344       Labox, TX (281) 983-344       Work Order Comments         Malada TX (431) 204-400, Malan, TX (281) 985-344       Labox, TX (281) 985-344       Labox, TX (281) 983-345       Work Order Comments         Malada TX (431) 204-400, Malan, TX (281) 205-200, Claboal, MM(737) 988-319       Work Order Comments       Work Order Comments         State Of Project       State of Project       Program: US/IPT   Mell       Bounnelds   BRC    State of Project       Reporting: Level III   Level III   Evel III   Eve	22218122 Jat			1	8	22/0		10/13
Environment Testing       Houton TV (281) 204-020, Dales, TV (214) 99-0200       Work Order No:         Nanager:       T accore:       Minanger:       Minanger:       Minanger:       T accore:       Minanger:	Sample Comments			Bi T	Grab/ Comp			Sample Identif
Euroroffins       Environment Testing       Houston TX (281) 240-4200, Dallas, TX (214) 920-2830       Work Order No:         Manager:       T 44-0 mme.       Caston TX (281) 240-4200, Dallas, TX (214) 920-2830       Work Order No:       Manager:       T 44-0 mme.       Caston TX (281) 240-4200, Dallas, TX (214) 920-2830       Work Order No:         Manager:       T 44-0 mme.       Caston TX (281) 240-420, Dallas, TX (214) 920-2830       Work Order Comments       Program:       Work Order Comments         my Name:       Caston TX (281) 240-420, Dallas, TX (214) 920-2830       Caston TX (281) 240-420, TX (480) 794-128       Program:       Variation Transmitted Participants       Program:       Work Order Comments         my Name:       Caston TX (281) 240-420, TX (481) 240-420       Caston TX (281) 240-420, TX (481) 240-420       State of Project:       Record Participants       Program:       USTPST    PRP        Brownfield    Rec    Cimerables:       ED    Dallas    Circular Value       None: NO       Dallas    Circular Value       Dallas    Circular Value       Dallas    Circular Value       None: NO       Dallas    Circular Value       State of Project:       Rec    Circular Value       None: NO       Dallas    Circular Value       None: NO       Dallas    Circular Value       None: NO       Dillas    Circular Value       None: NO       Dillas    Circular Value       None: NO       Dillas    Circular Value       None: NO	H+Ascorbic Acid: SAPC	NaO		HUTX	1.	Corrected Temperature		tal Containers:
Environment Testing       Housen, TX (28) 240-4200, Dalles, TX (214) 902-0300       Work Order No:         Manage:       T accores       Mininger       Mininge	cetate+NaOH: Zn		890-3549 Chain of Custo	1/	1.6	Temperature Reading:	No	mple Custody Seals:
Environment Testing       Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300       Work Order No:         Manager:       1<	203: NaSO 3	Na <sub>2</sub> s		Para	U	Correction Factor:	Yes No	oler Custody Seals:
Environment Testing         Housen, TX (281) 240-4200, Dallas, TX (214) 922-9300         Work Order No:           Manager:         T accover, Stanco         City SET         Bill to: (if different)         Cerr ET         CER Colspan="2">Company Name:         Vork Order No:         month of the colspan="2">None Company Name:         Vork Order Comments         Page         of           Sing         3/122         Address:         3/124         City Sale ZIP:         City Sale ZIP:         State of Project:         State of Project:         Record Colspan="2">Presenvalue         State of Project:         State of Project:         State of Project:         Record Colspan="2">Presenvalue         Other:         Presenvalue         Other:         Other:         None:	O A HP	H <sub>3</sub> PC		mete	Tes No	Ves No Wet Ice:	-	MPLE RECEIPT
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Furing Service for the sting Xence       Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300       Work Order No:       Work Order No:         Manager:       Tato res       Variant, TX (281) 240-4200, Dallas, TX (210) 902-0300       Work Order No:       Page       Mork Order No:         Manager:       Tato res       Variant, TX (281) 240-4200, Dallas, TX (210) 902-0300       Work Order No:       Page       of         Manager:       Tato res       Variant, TX (281) 240-4200, Dallas, TX (210) 902-0300       Work Order No:       Page       of         Manager:       Tato res       Variant, TX (281) 240-4200, Dallas, TX (210) 902-0300       Work Order No:       Page       of         Manager:       Tato res       Variant, TX (281) 240-4200, Carlsbad, NM (579) 988-3199       www.xenco.com       Page       of         Manager:       Tato res       Variant, To and the res       Carcer y       Program:       Work Order Comments         Name:       Variant, To and the rest       City, State ZIP:       City, State ZIP:       Program:       UST/PST          Reporting:       Level III          Program:       Page          other:         State of Project:       Address:       ED          Adapt          Other:       Other:       Deliverables:       ED          Adapt          None: NO       Di         <		Cool:				Due Date		
Function       Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300       Work Order No:         Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334       EL Paso, TX (915) 585-343, Lubbock, TX (200) 794-1296       Work Order No:         Manager:       T 24.0 max       //ormax       //ormax       //ormax       //ormax       //ormax         Name:       CASS dura       //ormax       //ormax       //ormax       //ormax       //ormax       //ormax       //ormax         Si       3/D2       //ormax       Company Name:       XTO       Creary       Program:       US7/PST       PRP       Brownfields       RRC       //or         si       3/D2       //ormax       Company Name:       XTO       Creary       Program:       US7/PST       PRP       Brownfields       RRC       //ort         si       3/D2       //ormax       City, State ZIP:       Si & didress:       Si & didress:       Program:       US7/PST       PRP       Brownfields       RRC       //ort         size ZIP:       City, State ZIP:       Enail:       City, State ZIP:       Other:       Project:       Project:       Poly       AdaPT       AdaPT       Other:       Deliverables:       EDD       AdaPT       Other:		None			Rush	Rou	A	ber:
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Format Testing       Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300       Work Order No:         Houston, TX (281) 240-4200, Dallas, TX (210) 509-3334       EL Paso, TX (915) 585-343, Lubbock, TX (806) 794-1296       Work Order No:         Tallorma       Miniman, TX (281) 240-4200, Dallas, TX (210) 509-3334       EL Paso, TX (915) 585-343, Lubbock, TX (806) 794-1296       Work Order No:         Tallorma       Miniman, TX (281) 240-4200, Dallas, TX (210) 509-3334       EL Paso, TX (915) 585-343, Lubbock, TX (806) 794-1296       Work Order No:         Tallorma       Miniman, TX (210) 509-332, Lubbock, TX (806) 794-1296       Work Order Comments       Page / of         Constant       Company Name:       X TO       Encrypt       Work Order Comments         Work Order Comments       Work Order Comments       Work Order Comments         YUX       Address:       YUA       State of Project:         Reporting:       Level III       PST/UST       TRRP	Other:				-	7	3-1-151-26	one:
For Fins       Environment Testing       Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300       Work Order No:         Midland, TX (281) 240-4200, Dallas, TX (210) 509-3334       El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296       Work Order No:         Tacoma       Mcmail Stype       Bill to: (If different)       Cerrert       Creet       Www.xenco.com       Page       of         Ensure       Company Name:       XTO       Carrert       Creet       Program:       UsT/PST       PRP       Brownfields       RRC         S122       Address:       S104       Carrert       State of Project:       State of Project:					City, State ZIP:	SC.	15 had W	y, State ZIP:
rofins       Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300       Work Order No:			3	3 4015	Address:		3122 Note	dress:
For Fins         Environment Testing         Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300         Work Order No:           Xenco         EL Paso, TX (915) 585-3440, San Antonio, TX (210) 509-3334         Work Order No:           Taloma         Minimum Set y         Bill to: (if different)         Center T         Gram         Work Order Comments			energy P	XTO	Company Name:	1	un	mpany Name:
Environment Testing         Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300         Work Order No:           Xenco         EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296         Work Order No:           Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199         www.xenco.com         Page	nts	Work Order Comme	T Green	Gener	Bill to: (if different)	6005527	alona M	
Environment Testing         Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300           Kenco         EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	of		ad, NM (575) 988-3199	M (575) 392-7550, Carlsk	Hobbs, N			
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300			tonio, TX (210) 509-3334 ck, TX (806) 794-1296	(432) 704-5440, San An X (915) 585-3443, Lubbo	Midland, T	mentiesting	Xenco	
			as, TX (214) 902-0300	TX (281) 240-4200, Dal	Houston	mont Torting		euro

Kenco     En all     En all for (14 different)       En all for (14 different)     Company Name:       En all     Company Name:       En all     Company Name:       En all     City, State ZIP:       En all     Finalt       Turn Around     Ford       Due Date:     Due Date:       Informemeter Due     Ford       Ver. No     No. Conscience Temperature:       Ver. No     Tempetality Readuer       Ver. No     Nation State Read Call Cr. Co       Ver. No     NA Sb As B	ELP No.       TK 0151 5852-3443, Ludbook, TK 1060 794-1356         Hobbs, MK (575) 982-7550, Carlsbad, MK (575) 988-3199         Hobbs, MK (575) 982-7550, Carlsbad, MK (575) 988-3199         Image: City, State ZIP:			Relinguished by: (Signature)	Notice: Signature of this document and reli of service. Eurofins Xenco will be liable ont of Eurofins Xenco. A minimum charge of \$	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed			Scal	2035	2023	1055	Sample Identification	Total Containers:	Sample Custody Seals: Yes		tact:	SAMPLE RECEIPT	PO #:	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:		
EL Paus, IX, VIX-JJ, VI	EL Para, TX (9) 53 53-343, Lubool, TX (800 79-136 Hobb, NM (975) 982-7580, Caribad, NM (975) 983-199  WM Company Name: Empil: Tum Audress: Final: Tum Audress: Final: Tum Audress: Final: Tum Audress: Final: Tum Audress: Final: Tum Audress: Final	www.xenco.com         WorkOrder Co         TIPST       PRP       Brow         EDD       Level III       P         EDD       ADap         Se Ag SiO <sub>2</sub> Na Sr       Hg: 1631 / 245.1 /	>	e)	inquishment of samp ly for the cost of samp 85.00 will be applied	00.8 / 6020: al(s) to be ana			5	5	5	5	Matrix		No		Yes No	Temp Blank:												Xenco
Bill to: (If different)       Impany Name:         Address:       City, State ZIP:         III.       City, State ZIP:         IIII. <td>EL Papar, N1 (915) 595-3443, Lubbock, TX (906) 799-1395 Hobb, NN (575) 392-7550, Cuitbaud, NM (575) 988-3199  NWW Company Name: Chy, State ZIP: Chy, State ZIP</td> <td>www.xenco.com         Work Order Co         TIPST       PRP       Brow         EDD       Level III       P         EDD       ADaP         Fag SiO2       Na Sr         Hg: 1631 / 245.1 /       Hg: 1631 / 245.1 /</td> <td>renala &amp;</td> <td>Received by: (Signat</td> <td>les constitutes a valid purchase bles and shall not assume any ro to each project and a charge o</td> <td>8RCRA 13 lyzed TCLP</td> <td></td> <td></td> <td>V 1205</td> <td>1145</td> <td>1730</td> <td>11-22 1115</td> <td></td> <td>Corrected Temperature</td> <td>-</td> <td>Correction Factor.</td> <td>Thermometer ID:</td> <td></td> <td>the lab, if</td> <td>TAT starts</td> <td>Due Date</td> <td>Routin</td> <td>T</td> <td>Ema</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	EL Papar, N1 (915) 595-3443, Lubbock, TX (906) 799-1395 Hobb, NN (575) 392-7550, Cuitbaud, NM (575) 988-3199  NWW Company Name: Chy, State ZIP: Chy, State ZIP	www.xenco.com         Work Order Co         TIPST       PRP       Brow         EDD       Level III       P         EDD       ADaP         Fag SiO2       Na Sr         Hg: 1631 / 245.1 /       Hg: 1631 / 245.1 /	renala &	Received by: (Signat	les constitutes a valid purchase bles and shall not assume any ro to each project and a charge o	8RCRA 13 lyzed TCLP			V 1205	1145	1730	11-22 1115		Corrected Temperature	-	Correction Factor.	Thermometer ID:		the lab, if	TAT starts	Due Date	Routin	T	Ema						
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# Eurofins Carlsbad 7 8

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Custody Seals Intact. ∆ Yes ∆ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Ver 06/08/2021

# Login Sample Receipt Checklist

Client: Ensolum

#### Login Number: 3549 List Number: 1 Creator: Stutzman, Amanda

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

#### Job Number: 890-3549-1 SDG Number: 03E1558141

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 4/5/2023 10:08:08 AM

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Job Number: 890-3549-1 SDG Number: 03E1558141

List Source: Eurofins Midland

List Creation: 11/23/22 11:54 AM

# Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3549 List Number: 2 Creator: Kramer, Jessica

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

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

Eurofins Carlsbad Released to Imaging: 4/5/2023 10:08:08 AM



# APPENDIX D

# **NMOCD** Notifications

Released to Imaging: 4/5/2023 10:08:08 AM

From:	Green, Garrett J
То:	Tacoma Morrissey
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 <u>Garrett.Green@ExxonMobil.com</u>

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

# Collins, Melanie

From: Sent: To: Subject:	OCDOnline@state.nm.us Friday, November 18, 2022 3:25 PM Collins, Melanie The Oil Conservation Division (OCD) has accepted the application, Application ID: 160139
Categories:	External Sender

# **External Email - Think Before You Click**

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2232251876, with the following conditions:

• When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2232251876, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	171204
	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 #NAPP2232251876 WEST BRUSHY 33 FED #1 BATTERY, thank you. This closure is approved.	4/5/2023

Action 171204