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Incident ID	NAPP2218943007
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 photo must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office		
☐ Laboratory analyses of final sampling (Note: appropriate OD	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 rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the or accordance with 19.15.29.13 NMAC including notification to the Orinted Name: _Garrett Green	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. Title: _Environmental Coordinator Date:01/18/2023		
OCD Only			
Received by: Jocelyn Harimon	Date: <u>01/18/2023</u>		
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: Robert Hamlet	Date:5/18/2023		
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	NAPP2218943007
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party xxx	\		OGRID 4	5200
Responsible Party XTO Energy Contact Name Garrett Green				-	5380 elephone 575-200-0729
					(assigned by OCD)
					(assigned by OCD)
Contact mail	ing address	3104 E. Greene St	reet, Carlsbad, Ne	w Mexico, 88220	
			Location	of Release So	ource
Latitude 32.	.10109			Longitude	-103.87514
			(NAD 83 in dec	cimal degrees to 5 decim	nal places)
Site Name F	LU 27 Brus	hy Draw 161H		Site Type	Production Well
Date Release	Discovered	06/25/2022		API# (if app	licable)
	G .:	T 1:	-		
Unit Letter	Section	Township	Range	Coun	<u>·</u>
L	27	25S	30E	Eddy	y
Surface Owner	r: State	➤ Federal ☐ Tr	ribal 🗌 Private (/	Vame:)
			Nature and	l Volume of F	Release
	Materia	l(s) Released (Select al	l that apply and attach	calculations or specific	justification for the volumes provided below)
Crude Oil	-	Volume Release	d (bbls)		Volume Recovered (bbls)
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)
			ion of total dissolwater >10,000 mg	` '	☐ Yes ☐ No
Condensa	te	Volume Release		,	Volume Recovered (bbls)
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)
× Other (des	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)
Produced Wat	ter w/FR	46.15 B	BLS		46.00 BBLS
Cause of Rele	Cause of Release Electronic failure caused fluids to overflow into containment and onto pad. All free fluids were recovered. A				
	third-pa	arty contractor has	been retained for	remediation purpos	ses.

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Page 2 Oil Conservation Division

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Incident ID	NAPP2218943007
District RP	
Facility ID	
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Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?	
release as defined by	A release greater than 25 barrels.		
19.15.29.7(A) NMAC?			
Yes No			
If YES, was immediate n	Lotice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?	
· ·	·	bert Hamlet, and Jennifer Nobui on 6/26/22 via email.	
, ,	,	,	
	Initial R	esponse	
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury	
The source of the rele	ease has been stopped.		
	s been secured to protect human health and	the environment.	
	•	likes, absorbent pads, or other containment devices.	
	ecoverable materials have been removed an		
	d above have <u>not</u> been undertaken, explain	wny:	
NA			
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred	
		errors have been successionly completed of it the release occurred blease attach all information needed for closure evaluation.	
		best of my knowledge and understand that pursuant to OCD rules and	
regulations all operators are	required to report and/or file certain release not	fications and perform corrective actions for releases which may endanger	
		OCD does not relieve the operator of liability should their operations have	
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws			
and/or regulations.			
Printed Name: Garrett G		Title: SSHE Coordinator	
Signature:	A Sun	Date: 07/08/2022	
email: garrett.green@exx	konmobil.com	Telephone: 575-200-0729	
eman.		тетерноне	
OCD Only			
	Harimon	D-4 07/08/2022	
Received by:Jocelyn	Harimon	Date: 07/08/2022	

Location:	PLU 27 Brushy Draw 161H		
Spill Date:	6/25/2022		
	Area 1		
Approximate A	rea =	252.66	sq. ft.
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	45.00	bbls
	Area 2		
Approximate A	rea =	225.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	1.15	bbls

TOTAL VOLUME OF LEAK			
Total Crude Oil =	0.00	bbls	
Total Produced Water =	46.15	bbls	
TOTAL VOLUME RECOVERED			
Total Crude Oil =	0.00	bbls	
Total Produced Water =	46.00	bbls	

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

District II

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 123789

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	123789
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	7/8/2022

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Incident ID	NAPP2218943007	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 20 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	> 100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel Field data Data table of soil contaminant concentration data Death to water determination 	ls.	

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

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

Laboratory data including chain of custody

Received by OCD: 1/18/2023 2:26:54 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2218943007	
District RP		
Facility ID		

Application ID

tate of New Mexico

Incident ID	NAPP2218943007
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 photo must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the operations of the canonical surface area.	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
f # P	
	Date:01/18/2023
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by:Jocelyn Harimon	Date:01/18/2023
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



January 18, 2023

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

Re: Closure Request

PLU 27 Brushy Draw 161H

Incident Number NAPP2218943007

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the PLU 27 Brushy Draw 161H (Site) in Unit L, Section 27, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of produced water with friction reducer at the Site. Based on field observations, field screening activities, and laboratory analytical results from the soil sampling events, XTO is requesting closure for Incident Number NAPP2218943007.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.10109° N, 103.87514°W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On June 25, 2022, during hydraulic fracking operations, an electronic failure resulted in the release of approximately 46.15 barrels (bbls) of produced water with friction reducer into a temporary lined containment and onto the well pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 46.0 bbls of fluid were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via emial on June, 26, 2022, and submitted a Release Notification Form C-141 (Form C-141) on July 8, 2022. The release was assigned Incident Number NAPP2218943007.

The temporary liner was removed prior to beginning site assessment activities. As such, a liner inspection could not be completed. The release extent was identified based on information provided on the Form C-141 and visual observations.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com

XTO Energy, Inc Closure Request PLU 27 Brushy Draw 161H

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320628103533001, located approximately 1.1 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 264 feet bgs and a total depth of 288 feet bgs. Ground surface elevation at the groundwater well location is 3,207 feet above mean sea level (amsl), which is approximately 53 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 1,226 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Following a one call utility clearance, Ensolum personnel visited the Site to evaluate the presence or absence of impacts to soil based on information provided on the Form C-141 and visual observations. The temporary containment had been removed and no visible staining was observed. Photographic documentation was conducted during the Site visit. A photographic log is included in Appendix B. Four potholes (PH01 through PH04) were advanced by use of heavy equipment to a total depth of 1-foot bgs. Two discrete delineation soil samples were collected from each pothole at depths of 0.5 feet and 1-foot bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were documented on a lithologic/soil sampling log and are included as Appendix C. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported 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-gasoline range organics (GRO), TPH-diesel range organics (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 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition.

XTO Energy, Inc Closure Request PLU 27 Brushy Draw 161H

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

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the June 25, 2022, release of produced water with friction reducer. Laboratory analytical results for soil samples collected near the release point, from depths ranging from 0.5 feet to 1 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table I Closure Criteria. NMOCD correspondence is provided in Appendix E and the safety data sheet (SDS) for friction reducer is provided in Appendix F.

Based on initial response efforts, depth to groundwater greater than 100 feet bgs, and soil sample laboratory analytical results, no further remediation was required. XTO believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2218943007.

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

Sincerely,

Ensolum, LLC

Connor Whitman Field Scientist

Coma Uhitmen

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

Principal

cc: Garrett Green, XTO

Shelby Pennington, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

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

Appendix A Well Record and Log Appendix B Photographic Log

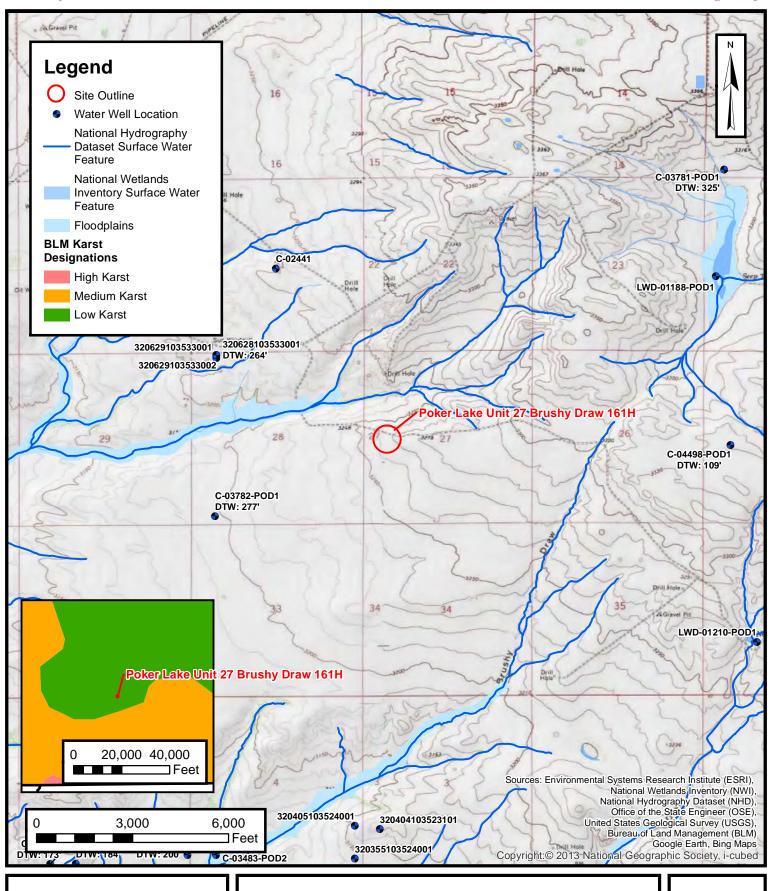
Appendix C Lithologic Soil Sampling Logs

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

Appendix E NMOCD Notifications
Appendix F Friction Reducer SDS



FIGURES



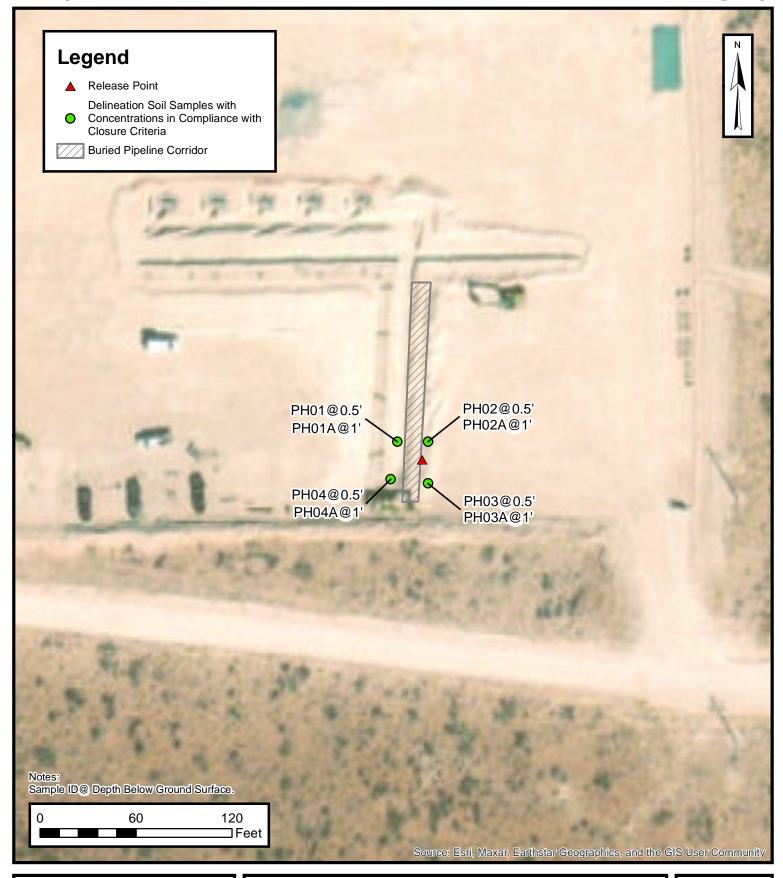


Site Receptor Map

XTO Energy, Inc PLU 27 Brushy Draw 161H NAPP2218943007 Unit L, Sec 27, T25S, R30E Eddy County, New Mexico **FIGURE**

1

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Delineation Soil Sample Locations

XTO Energy, Inc PLU 27 Brushy Draw 161H NAPP2218943007 Unit L, Sec 27, T25S, R30E Eddy County, New Mexico **FIGURE**

2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 27 Brushy Draw 161H XTO ENERGY INC Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 1		NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples				
PH01	12/13/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	105
PH01A	12/13/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	558
PH02	12/13/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	284
PH02A	12/13/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3.03
PH03	12/13/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	198
PH03A	12/13/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	565
PH04	12/13/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	249
PH04A	12/13/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	347

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

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320628103533001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320628103533001 25S.30E.21.333424

Eddy County, New Mexico

Table of data

Tab-separated data

Latitude 32°06'28", Longitude 103°53'30" NAD27

Land-surface elevation 3,207 feet above NAVD88

The depth of the well is 288 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Graph of data	raph of data												
Reselect peri	<u>od</u>												
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 measu			
1958-08-21		D	62610		2972.36	NGVD29	1	Z					
1958-08-21		D	62611		2974.00	NAVD88	1	Z					
1958-08-21		D	72019	233.00			1	Z					
1959-02-05		D	62610		2939.26	NGVD29	Р	Z					
1959-02-05		D	62611		2940.90	NAVD88	Р	Z					
1959-02-05		D	72019	266.10			Р	Z					
1983-02-01		D	62610		2945.48	NGVD29	1	Z					
1983-02-01		D	62611		2947.12	NAVD88	1	Z					
1983-02-01		D	72019	259.88			1	Z					
1998-01-28		D	62610		2940.76	NGVD29	1	S					
1998-01-28		D	62611		2942.40	NAVD88	1	S					
1998-01-28		D	72019	264.60			1	S					

- F	xnl	lar	ıati	on

Section Code Description

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
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 <u>Help</u> Data Tips Explanation of terms <u>Subscribe for system changes</u> <u>News</u>

Accessibility FOIA Privacy Policies and Notices

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

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-06-06 14:03:31 EDT 0.32 0.28 nadww01





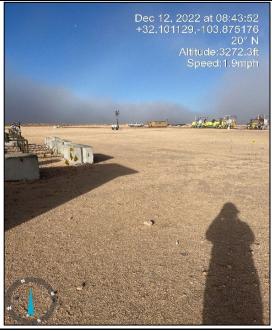
APPENDIX B

Photographic Log



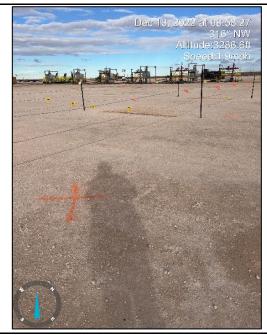
Photographic Log

XTO Energy, Inc PLU 27 Brushy Draw 161H Incident ID: NAPP2218943007



Photograph: 1 Date: 12/12/2022 Description: Site assessment, near release point.

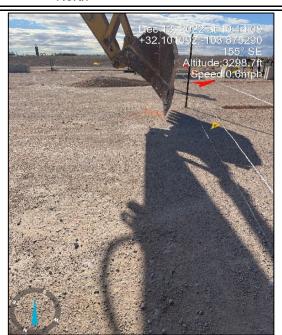
View: North



Photograph: 2 Date: 12/13/2022

Description: Site conditions, near release point.

View: Northwest



Photograph: 3 Date: 12/13/2022

Description: Delineation activities, PH02

View: South



Photograph: 4 Date: 12/13/2022

Description: Delineation activities, PH04

View: Northwest



APPENDIX C

Lithologic Soil Sampling Logs

i									1		
0								Sample Name: PH01	Date: 12/13/2022		
			N	S	OL			Site Name: PLU 27 Brushy Drav			
	10						d. Barel				
								Job #: 03E1558093			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR	Method: Trackhoe		
	inates: 32							Hole Diameter: N/A	Total Depth: 1'		
			_				•	PID for chloride and vapor, respector is included in all chloride fi	•		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions		
					- -	<u> </u>	CCHE	0-1', CALICHE w/ fine san some sub-round gravel,	d, dry, light brown, no stain, no odor, fill.		
D	<172.4	0.0	N	PH01	0.5	0.5					
D	364	0.0	N	PH01A	1	<u>.</u>					
٦ ا	304	0.0	IN	PHOTA		1	TD	Total Depth at 1' bgs.			
					_	_					
					-	-					
						-					
					_	_					
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					_	-					
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									T		
9								Sample Name: PH02	Date: 12/13/2022		
			N	S	OL			Site Name: PLU 27 Brushy D			
_	-						d. bad				
				. /			Job #: 03E1558093				
LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.10109, -103.87514								Logged By: MR	Method: Trackhoe		
					.:+b IIACII C	alauida Taak (Ctuine end	Hole Diameter: N/A PID for chloride and vapor, r	Total Depth: 1'		
			_					actor is included in all chlorid			
		I									
ure	de رر	ا کر رہ	ng	Sample ID	Sample	USCS/Rock Symbol					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	nple	Depth	Depth (ft bgs)	ISCS/Roc Symbol	Lithologi	c Descriptions		
ĭ ĭ	ch (I	> =	St	Sar	(ft bgs)	(10 083)	USC Sy				
						0		0-1', CALICHE w/ fine s	and, dry, light brown,		
						-		some sub-round grav	el, no stain, no odor, fill.		
					_	_					
D	207.2	0.0	N	PH02	0.5	0.5					
					_	<u>-</u>					
D	240.8	0.0	N	PH02A	1	1					
ט ן	∠4U.ŏ	0.0	IN	FHUZA			TD	Total Depth at 1' bgs.			
					_	_					
					-	-					
						-					
					_	_					
					_	-					
					=	=					
						-					
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									<u> </u>	
10	100							Sample Name: PH03	Date: 12/13/2022	
			N	S	OL			Site Name: PLU 27 Brushy Draw		
	- 8						a bad			
								Job #: 03E1558093		
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR	Method: Trackhoe	
	inates: 32							Hole Diameter: N/A	Total Depth: 1'	
			-				•	PID for chloride and vapor, resp actor is included in all chloride fie	•	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D		
						0	CCHE	0-1', CALICHE w/ fine sand some sub-round gravel,	d, dry, light brown, no stain, no odor, fill.	
	<172.4		N	PH03	0.5	0.5				
D	364	0.0	N	PH03A	1 _	1	TD	Total Depth at 1' bgs.		
						_				
					-	-				
					_	_				
					_	_				
					_	_				
					-	-				
					_	_				
					_	_				
					-	-				
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					-	_				
					_	- -				
					7	-				
					-	_				
					4	- -				
					-	-				
						- -				
					4	-				
						_				
					-	_				
					_	_				
					4	_				
					-	-				

10	100							Sample Name: PH04	Date: 12/13/2022		
			N	S	OL		M	Site Name: PLU 27 Brushy Draw			
	- 0		-				d. Barel				
								Job #: 03E1558093			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR	Method: Trackhoe		
	inates: 32							Hole Diameter: N/A	Total Depth: 1'		
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride field screening results.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions		
D	<172.4	0.0	N	PH04	1 - 0.5	0 0.5	CCHE	0-1', CALICHE w/ fine san some sub-round gravel,	d, dry, light brown, , no stain, no odor, fill.		
D	207.2	0.0	N	PH04A	1 1	- - - 1 -	TD	Total Depth at 1' bgs.			
					- - -	- - - -					
					- - - -	- - - -					
					- - - -	- - - -					
					- - - -	- - - -					
					- - -	- -					
					- -	- - -					



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 1/4/2023 4:15:54 PM Revision 1

JOB DESCRIPTION

PLU 27 BRUSHY DRAW 161H SDG NUMBER 03E1558093

JOB NUMBER

890-3647-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 1/4/2023 4:15:54 PM Revision 1

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

Client: Ensolum
Project/Site: PLU 27 BRUSHY DRAW 161H
Laboratory Job ID: 890-3647-1
SDG: 03E1558093

SDG: 03

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Sample Summary	31
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Receipt Charklists	35

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Definitions/Glossary

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

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) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Job ID: 890-3647-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3647-1

REVISION

The report being provided is a revision of the original report sent on 12/27/2022. The report (revision 1) is being revised due to Per client email requesting chloride re run on PH01A @ 1'.

Report revision history

Receipt

The samples were received on 12/13/2022 3:30 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 9.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3647-1), PH01A (890-3647-2), PH02 (890-3647-3), PH02A (890-3647-4), PH03 (890-3647-5), PH03A (890-3647-6), PH04 (890-3647-7) and PH04A (890-3647-8).

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-41930 and analytical batch 880-41982 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: PH01A (890-3647-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-41930 and analytical batch 880-41982 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-41942 and analytical batch 880-42078 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-3644-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: PH04A (890-3647-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41924 and analytical batch 880-42328 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: PH03 (890-3647-5), PH03A (890-3647-6), PH04 (890-3647-7), PH04A (890-3647-8) and (890-3647-A-5-B MS).

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-41925 and analytical batch 880-42330 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The

Eurofins Carlsbad 1/4/2023 (Rev. 1)

Case Narrative

Client: Ensolum

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3647-1

SDG: 03E1558093

Job ID: 890-3647-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

associated samples are: PH01 (890-3647-1), PH01A (890-3647-2), PH02 (890-3647-3), PH02A (890-3647-4), (890-3644-A-11-A), (890-3644-A-11-B MS) and (890-3644-A-11-C MSD).

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

Client: Ensolum Job ID: 890-3647-1 SDG: 03E1558093

Project/Site: PLU 27 BRUSHY DRAW 161H

Client Sample ID: PH01 Lab Sample ID: 890-3647-1 Date Collected: 12/13/22 09:50 **Matrix: Solid**

Date Received: 12/13/22 15:30

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/22/22 11:22	12/24/22 23:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/22/22 11:22	12/24/22 23:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/22/22 11:22	12/24/22 23:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/22/22 11:22	12/24/22 23:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/22/22 11:22	12/24/22 23:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/22/22 11:22	12/24/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			12/22/22 11:22	12/24/22 23:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/22/22 11:22	12/24/22 23:47	1

mothod: I/LE OO! Total B1EX	TOTAL DIEN	ouiouiutioi	•					
Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U		0.00402	mg/Kg			12/26/22 16:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9 U	49.9	mg/Kg			12/19/22 15:03	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 03:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 03:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 03:19	1

1-Chlorooctane	117	70 - 130	12/15/22 14:22 12/17/22 03:19 1
o-Terphenyl	112	70 - 130	12/15/22 14:22 12/17/22 03:19 1
Method: MCAWW 300.0 - Anio	ne Ion Chromato	graphy - Soluble	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105	4.95	mg/Kg			12/23/22 00:53	1

Lab Sample ID: 890-3647-2 **Client Sample ID: PH01A** Date Collected: 12/13/22 09:55 **Matrix: Solid**

Date Received: 12/13/22 15:30 Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/22/22 11:22	12/25/22 00:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/22/22 11:22	12/25/22 00:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/22/22 11:22	12/25/22 00:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/22/22 11:22	12/25/22 00:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/22/22 11:22	12/25/22 00:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/22/22 11:22	12/25/22 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/22/22 11:22	12/25/22 00:08	1

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Matrix: Solid

Lab Sample ID: 890-3647-2

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Client Sample ID: PH01A

Date Collected: 12/13/22 09:55 Date Received: 12/13/22 15:30

Sample Depth: 1

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

Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89	70 - 130	12/22/22 11:22	12/25/22 00:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/26/22 16:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/19/22 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 03:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 03:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/17/22 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	12/15/22 14:22	12/17/22 03:42	1
o-Terphenyl	127		70 - 130	12/15/22 14:22	12/17/22 03:42	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558		4.95	mg/Kg			01/04/23 14:30	1

Client Sample ID: PH02 Lab Sample ID: 890-3647-3 **Matrix: Solid**

Date Collected: 12/13/22 10:25 Date Received: 12/13/22 15:30

Sample Depth: 0.5

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

method. Offoro our ib - for	athic Organic	Compoun	us (55)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 00:28	1
Toluene	< 0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 00:28	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 00:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 11:22	12/25/22 00:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 00:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 11:22	12/25/22 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			12/22/22 11:22	12/25/22 00:28	1

4-Bromofluorobenzene (Surr)	101	70 - 130	12/22/22 11:22 12/25/22 00:28 1
1,4-Difluorobenzene (Surr)	103	70 - 130	12/22/22 11:22 12/25/22 00:28 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/26/22 16:25	1

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

Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U		49.9	mg/Kg	_		12/19/22 15:03	1

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Client: Ensolum Job ID: 890-3647-1 SDG: 03E1558093

Project/Site: PLU 27 BRUSHY DRAW 161H

Lab Sample ID: 890-3647-3

Matrix: Solid

Date Collected: 12/13/22 10:25 Date Received: 12/13/22 15:30

Client Sample ID: PH02

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 04:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 04:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			12/15/22 14:22	12/17/22 04:04	1
o-Terphenyl	116		70 - 130			12/15/22 14:22	12/17/22 04:04	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	284	24.9	mg/Kg			12/23/22 01:11	5	

Lab Sample ID: 890-3647-4 **Client Sample ID: PH02A**

Date Collected: 12/13/22 10:30 **Matrix: Solid**

Date Received: 12/13/22 15:30

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 00:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 00:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 00:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/22/22 11:22	12/25/22 00:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 00:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/22/22 11:22	12/25/22 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			12/22/22 11:22	12/25/22 00:49	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/22/22 11:22	12/25/22 00:49	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Die	<0.00399 esel Range (0.00399 DRO) (GC)	mg/Kg			12/26/22 16:25	1
- -	esel Range (mg/Kg Unit		Prepared	12/26/22 16:25 Analyzed	1 Dil Fac
: Method: SW846 8015 NM - Die	esel Range (Organics (Qualifier	DRO) (GC)	0 0	D	Prepared		·
Method: SW846 8015 NM - Die Analyte	Result <49.9	Organics (Qualifier	DRO) (GC) RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH	esel Range (Result <49.9	Organics (Qualifier	DRO) (GC) RL 49.9	Unit		Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range (Result <49.9	Organics (Qualifier U Organics Qualifier Qualifier	DRO) (GC) RL 49.9 (DRO) (GC)	Unit mg/Kg	_ =	<u> </u>	Analyzed 12/19/22 15:03	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range (Result <49.9 Diesel Range Result	Organics (Qualifier U Organics Qualifier U	DRO) (GC) RL 49.9 (DRO) (GC) RL	Unit mg/Kg	_ =	Prepared 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Diesel Range Result <49.9	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9	Unit mg/Kg Unit mg/Kg	_ =	Prepared 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/17/22 04:26 12/17/22 04:26	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte	Piesel Range (Result 49.9) Diesel Range (Result 49.9) 449.9	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/15/22 14:22 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/17/22 04:26 12/17/22 04:26	Dil Fac Dil Fac 1

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12/15/22 14:22 12/17/22 04:26

70 - 130

101

o-Terphenyl

Client Sample Results

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Client Sample ID: PH02A Lab Sample ID: 890-3647-4 Date Collected: 12/13/22 10:30

Date Received: 12/13/22 15:30 Sample Depth: 1

Matrix: Solid

Method: MCAWW 300.0 - Anic	ons, Ion Chromatograp	hy - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.03	0.253	mg/Kg			12/23/22 01:19	5

Client Sample ID: PH03 Lab Sample ID: 890-3647-5

Date Collected: 12/13/22 10:10 Matrix: Solid

Date Received: 12/13/22 15:30

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/22/22 11:22	12/25/22 01:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/22/22 11:22	12/25/22 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			12/22/22 11:22	12/25/22 01:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/22/22 11:22	12/25/22 01:09	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/26/22 16:25	1
Г., .,								

Method: SW846 8015 NM - Diese	Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:03	1

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 04:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 04:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 14:22	12/17/22 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			12/15/22 14:22	12/17/22 04:48	1
o-Terphenyl	112		70 - 130			12/15/22 14:22	12/17/22 04:48	1

Method: MCAWW 300.0 - Anio	Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	198	F1	5.00	mg/Kg			12/22/22 12:33	1			

Client Sample ID: PH03A Lab Sample ID: 890-3647-6

Date Collected: 12/13/22 10:15 **Matrix: Solid** Date Received: 12/13/22 15:30

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 01:29	1
Toluene	< 0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 01:29	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 01:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 11:22	12/25/22 01:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 01:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 11:22	12/25/22 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			12/22/22 11:22	12/25/22 01:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130			12/22/22 11:22	12/25/22 01:29	1
Method: TAL SOP Total BTEX	(- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T. L. I DTEV	-0.0000							
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/26/22 16:25	1
Method: SW846 8015 NM - Di Analyte Total TPH	esel Range (Organics (Qualifier		mg/Kg Unitmg/Kg	<u>D</u>	Prepared	Analyzed 12/19/22 15:03	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH	esel Range (Result <49.9	Organics (Qualifier U	DRO) (GC) RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte	esel Range (Result <49.9 Diesel Range	Organics (Qualifier U	DRO) (GC) RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics	esel Range (Result <49.9 Diesel Range	Organics (Qualifier U Organics Qualifier	DRO) (GC) RL 49.9 (DRO) (GC)	Unit mg/Kg	— <u>=</u>	<u> </u>	Analyzed 12/19/22 15:03	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range (Result <49.9 Diesel Range Result	Organics (Qualifier U Organics Qualifier U	DRO) (GC) RL 49.9 (DRO) (GC) RL	Unit mg/Kg	— <u>=</u>	Prepared	Analyzed 12/19/22 15:03 Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range (Result <49.9 Diesel Range Result <49.9	Organics (Qualifier U Organics Qualifier U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9	Unit mg/Kg Unit mg/Kg	— <u>=</u>	Prepared 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/17/22 05:11 12/17/22 05:11	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range (Result <49.9 Diesel Range Result <49.9 <49.9	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 12/15/22 14:22 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/17/22 05:11 12/17/22 05:11	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	esel Range (Result (49.9) Diesel Range (Result (49.9) (49.9) (49.9)	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/17/22 05:11 12/17/22 05:11 12/17/22 05:11	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	esel Range (Result (49.9) Diesel Range (Result (49.9) (49.9) (49.9) (49.9)	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared	Analyzed 12/19/22 15:03 Analyzed 12/17/22 05:11 12/17/22 05:11 12/17/22 05:11 Analyzed 12/17/22 05:11	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - Di Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Organics (Qualifier U Organics Qualifier U U U Qualifier	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg	— <u>=</u>	Prepared 12/15/22 14:22 12/15/22 14:22 12/15/22 14:22 Prepared 12/15/22 14:22	Analyzed 12/19/22 15:03 Analyzed 12/17/22 05:11 12/17/22 05:11 12/17/22 05:11 Analyzed 12/17/22 05:11	Dil Fac Dil Fac 1

Client Sample ID: PH04 Lab Sample ID: 890-3647-7 Date Collected: 12/13/22 09:35 **Matrix: Solid**

5.04

565

mg/Kg

Date Received: 12/13/22 15:30

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/22/22 11:22	12/25/22 01:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/25/22 01:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/22/22 11:22	12/25/22 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			12/22/22 11:22	12/25/22 01:50	1

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12/22/22 12:59

Job ID: 890-3647-1

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Lab Sample ID: 890-3647-7 Client Sample ID: PH04 Date Collected: 12/13/22 09:35

Matrix: Solid

Date Received: 12/13/22 15:30 Sample Depth: 0.5

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

Surrogate	%Recovery Qu	ıalifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	12/22/22 11:22	12/25/22 01:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/26/22 16:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/19/22 15:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/15/22 15:21	12/18/22 06:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/15/22 15:21	12/18/22 06:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/15/22 15:21	12/18/22 06:27	1
Surrogato	% Pocovory	Qualifier	Limite			Droporod	Analyzad	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	12/15/22 15:21	12/18/22 06:27	1
o-Terphenyl	123		70 - 130	12/15/22 15:21	12/18/22 06:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		5.03	mg/Kg			12/22/22 13:08	1

Client Sample ID: PH04A Lab Sample ID: 890-3647-8 **Matrix: Solid**

Date Collected: 12/13/22 09:40 Date Received: 12/13/22 15:30

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 02:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 02:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 02:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/22/22 11:22	12/25/22 02:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/22/22 11:22	12/25/22 02:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/22/22 11:22	12/25/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			12/22/22 11:22	12/25/22 02:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/22/22 11:22	12/25/22 02:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/26/22 16:25	1

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

Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			12/19/22 15:35	1

Client Sample Results

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Lab Sample ID: 890-3647-8 **Client Sample ID: PH04A**

Date Collected: 12/13/22 09:40 **Matrix: Solid** Date Received: 12/13/22 15:30

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/15/22 15:21	12/18/22 06:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/22 15:21	12/18/22 06:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 15:21	12/18/22 06:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			12/15/22 15:21	12/18/22 06:49	1
o-Terphenyl	142	S1+	70 - 130			12/15/22 15:21	12/18/22 06:49	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	347	5.05	mg/Kg			12/22/22 13:17	1		

Surrogate Summary

Client: Ensolum Job ID: 890-3647-1
Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3647-1	PH01	95	103	
890-3647-1 MS	PH01	126	111	
890-3647-1 MSD	PH01	109	113	
890-3647-2	PH01A	112	89	
890-3647-3	PH02	101	103	
890-3647-4	PH02A	122	96	
890-3647-5	PH03	122	97	
890-3647-6	PH03A	97	104	
890-3647-7	PH04	98	97	
890-3647-8	PH04A	100	105	
LCS 880-42511/1-A	Lab Control Sample	123	98	
LCSD 880-42511/2-A	Lab Control Sample Dup	124	111	
MB 880-42511/5-A	Method Blank	94	106	
MB 880-42588/7	Method Blank	90	98	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

			Per
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3644-A-1-E MS	Matrix Spike	104	104
890-3644-A-1-F MSD	Matrix Spike Duplicate	104	103
890-3646-A-1-C MS	Matrix Spike	98	88
890-3646-A-1-D MSD	Matrix Spike Duplicate	84	78
890-3647-1	PH01	117	112
890-3647-2	PH01A	136 S1+	127
890-3647-3	PH02	123	116
890-3647-4	PH02A	103	101
890-3647-5	PH03	119	112
890-3647-6	PH03A	112	106
890-3647-7	PH04	111	123
890-3647-8	PH04A	127	142 S1+
LCS 880-41930/2-A	Lab Control Sample	114	122
LCS 880-41942/2-A	Lab Control Sample	109	118
LCSD 880-41930/3-A	Lab Control Sample Dup	114	120
LCSD 880-41942/3-A	Lab Control Sample Dup	108	118
MB 880-41930/1-A	Method Blank	133 S1+	131 S1+
MB 880-41942/1-A	Method Blank	126	142 S1+
Surrogate Legend			

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3

A

5

8

10

12

4 1

OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42511/5-A

Matrix: Solid

Analysis Batch: 42588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42511

	INIB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/24/22 23:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/24/22 23:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/24/22 23:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/22/22 11:22	12/24/22 23:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/22/22 11:22	12/24/22 23:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/22/22 11:22	12/24/22 23:27	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/22/22 11:22	12/24/22 23:27	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/22/22 11:22	12/24/22 23:27	1

Lab Sample ID: LCS 880-42511/1-A

Matrix: Solid

Analysis Batch: 42588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42511

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
Toluene	0.100	0.1025		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2445		mg/Kg		122	70 - 130	
o-Xylene	0.100	0.1218		mg/Kg		122	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-42511/2-A

Matrix: Solid

Analysis Batch: 42588

Client Sample	ID: Lab	Control	Sample	Dup

Prep Type: Total/NA Prep Batch: 42511

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1021		mg/Kg		102	70 - 130	1	35
0.100	0.09678		mg/Kg		97	70 - 130	6	35
0.100	0.1066		mg/Kg		107	70 - 130	5	35
0.200	0.2314		mg/Kg		116	70 - 130	5	35
0.100	0.1159		mg/Kg		116	70 - 130	5	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1021 0.100 0.09678 0.100 0.1066 0.200 0.2314	Added Result Qualifier 0.100 0.1021 0.100 0.09678 0.100 0.1066 0.200 0.2314	Added Result Qualifier Unit 0.100 0.1021 mg/Kg 0.100 0.09678 mg/Kg 0.100 0.1066 mg/Kg 0.200 0.2314 mg/Kg	Added Result Qualifier Unit D 0.100 0.1021 mg/Kg 0.100 0.09678 mg/Kg 0.100 0.1066 mg/Kg 0.200 0.2314 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1021 mg/Kg 102 0.100 0.09678 mg/Kg 97 0.100 0.1066 mg/Kg 107 0.200 0.2314 mg/Kg 116	Added Result Qualifier Unit D %Rec Limits 0.100 0.1021 mg/Kg 102 70 - 130 0.100 0.09678 mg/Kg 97 70 - 130 0.100 0.1066 mg/Kg 107 70 - 130 0.200 0.2314 mg/Kg 116 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1021 mg/Kg 102 70 - 130 1 0.100 0.09678 mg/Kg 97 70 - 130 6 0.100 0.1066 mg/Kg 107 70 - 130 5 0.200 0.2314 mg/Kg 116 70 - 130 5

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-3647-1 MS

Matrix: Solid

Analysis Batch: 42588

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 42511

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09011		mg/Kg		90	70 - 130	
Toluene	<0.00201	U	0.100	0.08818		mg/Kg		88	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

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

Lab Sample ID: 890-3647-1 MS

Client Sample ID: PH01 Matrix: Solid Prep Type: Total/NA **Analysis Batch: 42588** Prep Batch: 42511

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.100	0.09693		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2141		mg/Kg		107	70 - 130	
o-Xylene	<0.00201	U	0.100	0.1055		mg/Kg		105	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 126 1,4-Difluorobenzene (Surr) 70 - 130 111

Lab Sample ID: 890-3647-1 MSD **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA Prep Batch: 42511 **Analysis Batch: 42588**

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00201 U 0.0998 84 70 - 130 8 35 0.08334 mg/Kg Toluene <0.00201 U 0.0998 0.07806 78 70 - 130 35 mg/Kg 12 Ethylbenzene <0.00201 U 0.0998 0.08203 mg/Kg 82 70 - 130 17 35 m-Xylene & p-Xylene <0.00402 U 0.200 0.1710 mg/Kg 86 70 - 130 22 35 <0.00201 U 0.0998 0.08493 85 22 o-Xylene mg/Kg 70 - 130

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 113

Lab Sample ID: MB 880-42588/7 **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 42588

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			12/24/22 12:34	1
Toluene	<0.00200	U	0.00200	mg/Kg			12/24/22 12:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			12/24/22 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			12/24/22 12:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			12/24/22 12:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			12/24/22 12:34	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130		12/24/22 12:34	1
1,4-Difluorobenzene (Surr)	98		70 - 130		12/24/22 12:34	1

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

Lab Sample ID: MB 880-41930/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 41982** Prep Batch: 41930

MB MB Result Qualifier Unit Analyte RL Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 12/15/22 14:22 12/16/22 19:53 (GRO)-C6-C10

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

Client Sample ID: Method Blank Lab Sample ID: MB 880-41930/1-A Matrix: Solid **Prep Type: Total/NA** Prep Batch: 41930 **Analysis Batch: 41982**

7 midigolo Editolii 1100E							op Batom	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/16/22 19:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/22 14:22	12/16/22 19:53	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			12/15/22 14:22	12/16/22 19:53	1
o-Terphenyl	131	S1+	70 - 130			12/15/22 14:22	12/16/22 19:53	1

Lab Sample ID: LCS 880- Matrix: Solid Analysis Batch: 41982	41930/2-A		Spike	ıcs	LCS	Clier	it Sai	тріе іப	Prep Type: Total/NA Prep Batch: 41930 %Rec
Analyte			Added	_	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10			1000	961.8		mg/Kg	_ =	96	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1013		mg/Kg		101	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	122		70 - 130						

Lab Sample ID: LCSD 880-41930/3-A Matrix: Solid Analysis Batch: 41982			C	Client Sa	mple	ID: Lak	Control Prep Ty Prep E	•	al/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	979.2		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130	1	20

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

Lab Sample ID: 890-3646 Matrix: Solid Analysis Batch: 41982							CI	lient Sa	mple ID: Matrix Spike Prep Type: Total/NA Prep Batch: 41930
	•	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	1283		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1005		mg/Kg		101	70 - 130
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	88		70 - 130						

Eurofins Carlsbad

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

Lab Sample ID: 890-3646-A-1-D MSD

Matrix: Solid

Analysis Batch: 41982

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 41930

%Rec **RPD** Limit

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Analyte <50.0 U F2 Gasoline Range Organics 997 1006 F2 mg/Kg 101 70 - 130 24 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 889.7 89 70 - 130 mg/Kg 12 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	78		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41942

Lab Sample ID: MB 880-41942/1-A **Matrix: Solid**

Analysis Batch: 42078

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac **Prepared** Gasoline Range Organics <50.0 U 50.0 mg/Kg 12/15/22 15:21 12/17/22 22:54 (GRO)-C6-C10 12/15/22 15:21 12/17/22 22:54 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/15/22 15:21 12/17/22 22:54

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126	70 - 130	12/15/22 15:21	12/17/22 22:54	1
o-Terphenyl	142 S1+	70 - 130	12/15/22 15:21	12/17/22 22:54	1

Lab Sample ID: LCS 880-41942/2-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 41942

	эріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	848.4		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	
C10-C28)								

100 100

Chika

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-41942/3-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID:	Lab Control	Sample Dup
	Pron Ty	me: Total/NA

Prep Batch: 41942

7 maryolo Batom 42070					op =	Jucoii.			
_	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	831.8		mg/Kg		83	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1011		mg/Kg		101	70 - 130	1	20
C10-C28)									

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

Lab Sample ID: LCSD 880-41942/3-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41942

LCSD LCSD

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	108	70 - 130
o-Terphenyl	118	70 - 130

Lab Sample ID: 890-3644-A-1-E MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 42078

Prep Type: Total/NA

Prep Batch: 41942

,										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	954.0		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1159		mg/Kg		114	70 - 130	

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

Lab Sample ID: 890-3644-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 42078

Prep Type: Total/NA

Prep Batch: 41942

	Sample	Sample	Бріке	M2D	M2D				%Rec		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1038		mg/Kg		102	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1144		mg/Kg		113	70 - 130	1	20	

	INISD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41924/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42328

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/22/22 12:07	1

Lab Sample ID: LCS 880-41924/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42328

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	274.8		mg/Kg		110	90 - 110	

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-41924/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42328

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D Chloride 250 274.8 mg/Kg 110 90 - 110 n 20

Lab Sample ID: 890-3647-5 MS Client Sample ID: PH03 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42328

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit D %Rec Limits Analyte 198 F1 250 90 - 110 Chloride 495.3 F1 mg/Kg 119

Lab Sample ID: 890-3647-5 MSD **Client Sample ID: PH03 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42328

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Analyte Unit D %Rec Limit Chloride 198 F1 250 469.1 108 90 - 110 20 mg/Kg

Lab Sample ID: MB 880-41925/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 42330

MB MB

Analyte Result Qualifier RL Unit Prepared Dil Fac Analyzed <5.00 U 5 00 12/22/22 20:57 Chloride mg/Kg

Lab Sample ID: LCS 880-41925/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 42330

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 268.0 107 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-41925/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42330

Spike LCSD LCSD %Rec **RPD** Added **RPD** Limit Analyte Result Qualifier Unit D %Rec Limits 250 Chloride 266.1 mg/Kg 106 90 - 110

Lab Sample ID: 890-3644-A-11-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42330

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 165 F1 249 505.8 F1 Chloride mg/Kg 137 90 - 110

Lab Sample ID: 890-3644-A-11-C MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42330

Released to Imaging: 5/18/2023 1:29:02 PM

Spike MSD MSD %Rec **RPD** Sample Sample **RPD** Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Limit 165 F1 Chloride 249 484.9 F1 mg/Kg 129 90 - 110 20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43131/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 43169

Matrix: Solid

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 5.00 01/04/23 12:33 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-43131/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 43169

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 254.5 90 - 110 mg/Kg 102

Lab Sample ID: LCSD 880-43131/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 43169

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Chloride 250 254.7 102 90 - 110 20 mg/Kg

Lab Sample ID: 880-23271-A-1-B MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43169

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 252 272.9 12.0 mg/Kg 104 90 - 110

Lab Sample ID: 880-23271-A-1-C MSD

Matrix: Solid

Analysis Batch: 43169

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit Limits RPD Result Qualifier %Rec Limit Chloride 12.0 252 273.9 104 20 mg/Kg 90 - 110 0

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

GC VOA

Prep Batch: 42511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Total/NA	Solid	5035	
890-3647-2	PH01A	Total/NA	Solid	5035	
890-3647-3	PH02	Total/NA	Solid	5035	
890-3647-4	PH02A	Total/NA	Solid	5035	
890-3647-5	PH03	Total/NA	Solid	5035	
890-3647-6	PH03A	Total/NA	Solid	5035	
890-3647-7	PH04	Total/NA	Solid	5035	
890-3647-8	PH04A	Total/NA	Solid	5035	
MB 880-42511/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42511/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42511/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3647-1 MS	PH01	Total/NA	Solid	5035	
890-3647-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 42588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Total/NA	Solid	8021B	42511
890-3647-2	PH01A	Total/NA	Solid	8021B	42511
890-3647-3	PH02	Total/NA	Solid	8021B	42511
890-3647-4	PH02A	Total/NA	Solid	8021B	42511
890-3647-5	PH03	Total/NA	Solid	8021B	42511
890-3647-6	PH03A	Total/NA	Solid	8021B	42511
890-3647-7	PH04	Total/NA	Solid	8021B	42511
890-3647-8	PH04A	Total/NA	Solid	8021B	42511
MB 880-42511/5-A	Method Blank	Total/NA	Solid	8021B	42511
MB 880-42588/7	Method Blank	Total/NA	Solid	8021B	
LCS 880-42511/1-A	Lab Control Sample	Total/NA	Solid	8021B	42511
LCSD 880-42511/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42511
890-3647-1 MS	PH01	Total/NA	Solid	8021B	42511
890-3647-1 MSD	PH01	Total/NA	Solid	8021B	42511

Analysis Batch: 42610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Total/NA	Solid	Total BTEX	
890-3647-2	PH01A	Total/NA	Solid	Total BTEX	
890-3647-3	PH02	Total/NA	Solid	Total BTEX	
890-3647-4	PH02A	Total/NA	Solid	Total BTEX	
890-3647-5	PH03	Total/NA	Solid	Total BTEX	
890-3647-6	PH03A	Total/NA	Solid	Total BTEX	
890-3647-7	PH04	Total/NA	Solid	Total BTEX	
890-3647-8	PH04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Total/NA	Solid	8015NM Prep	
890-3647-2	PH01A	Total/NA	Solid	8015NM Prep	
890-3647-3	PH02	Total/NA	Solid	8015NM Prep	
890-3647-4	PH02A	Total/NA	Solid	8015NM Prep	
890-3647-5	PH03	Total/NA	Solid	8015NM Prep	

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

GC Semi VOA (Continued)

Prep Batch: 41930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-6	PH03A	Total/NA	Solid	8015NM Prep	
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3646-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3646-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 41942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-7	PH04	Total/NA	Solid	8015NM Prep	
890-3647-8	PH04A	Total/NA	Solid	8015NM Prep	
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3644-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3644-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Total/NA	Solid	8015B NM	41930
890-3647-2	PH01A	Total/NA	Solid	8015B NM	41930
890-3647-3	PH02	Total/NA	Solid	8015B NM	41930
890-3647-4	PH02A	Total/NA	Solid	8015B NM	41930
890-3647-5	PH03	Total/NA	Solid	8015B NM	41930
890-3647-6	PH03A	Total/NA	Solid	8015B NM	41930
MB 880-41930/1-A	Method Blank	Total/NA	Solid	8015B NM	41930
LCS 880-41930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41930
LCSD 880-41930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41930
890-3646-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	41930
890-3646-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41930

Analysis Batch: 42078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-7	PH04	Total/NA	Solid	8015B NM	41942
890-3647-8	PH04A	Total/NA	Solid	8015B NM	41942
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015B NM	41942
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41942
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41942
890-3644-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41942
890-3644-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41942

Analysis Batch: 42192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Total/NA	Solid	8015 NM	
890-3647-2	PH01A	Total/NA	Solid	8015 NM	
890-3647-3	PH02	Total/NA	Solid	8015 NM	
890-3647-4	PH02A	Total/NA	Solid	8015 NM	
890-3647-5	PH03	Total/NA	Solid	8015 NM	
890-3647-6	PH03A	Total/NA	Solid	8015 NM	
890-3647-7	PH04	Total/NA	Solid	8015 NM	
890-3647-8	PH04A	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

HPLC/IC

Leach Batch: 41924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-5	PH03	Soluble	Solid	DI Leach	
890-3647-6	PH03A	Soluble	Solid	DI Leach	
890-3647-7	PH04	Soluble	Solid	DI Leach	
890-3647-8	PH04A	Soluble	Solid	DI Leach	
MB 880-41924/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41924/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41924/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3647-5 MS	PH03	Soluble	Solid	DI Leach	
890-3647-5 MSD	PH03	Soluble	Solid	DI Leach	

Leach Batch: 41925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Soluble	Solid	DI Leach	
890-3647-3	PH02	Soluble	Solid	DI Leach	
890-3647-4	PH02A	Soluble	Solid	DI Leach	
MB 880-41925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3644-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3644-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 42328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-5	PH03	Soluble	Solid	300.0	41924
890-3647-6	PH03A	Soluble	Solid	300.0	41924
890-3647-7	PH04	Soluble	Solid	300.0	41924
890-3647-8	PH04A	Soluble	Solid	300.0	41924
MB 880-41924/1-A	Method Blank	Soluble	Solid	300.0	41924
LCS 880-41924/2-A	Lab Control Sample	Soluble	Solid	300.0	41924
LCSD 880-41924/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41924
890-3647-5 MS	PH03	Soluble	Solid	300.0	41924
890-3647-5 MSD	PH03	Soluble	Solid	300.0	41924

Analysis Batch: 42330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-1	PH01	Soluble	Solid	300.0	41925
890-3647-3	PH02	Soluble	Solid	300.0	41925
890-3647-4	PH02A	Soluble	Solid	300.0	41925
MB 880-41925/1-A	Method Blank	Soluble	Solid	300.0	41925
LCS 880-41925/2-A	Lab Control Sample	Soluble	Solid	300.0	41925
LCSD 880-41925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41925
890-3644-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	41925
890-3644-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	41925

Leach Batch: 43131

Lab Sample ID 890-3647-2	Client Sample ID PH01A	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-43131/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43131/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43131/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23271-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

HPLC/IC (Continued)

Leach Batch: 43131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23271-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3647-2	PH01A	Soluble	Solid	300.0	43131
MB 880-43131/1-A	Method Blank	Soluble	Solid	300.0	43131
LCS 880-43131/2-A	Lab Control Sample	Soluble	Solid	300.0	43131
LCSD 880-43131/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43131
880-23271-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	43131
880-23271-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43131

Date Received: 12/13/22 15:30

Client: Ensolum

SDG: 03E1558093

Project/Site: PLU 27 BRUSHY DRAW 161H

Client Sample ID: PH01 Date Collected: 12/13/22 09:50 Lab Sample ID: 890-3647-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/24/22 23:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 03:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42330	12/23/22 00:53	SMC	EET MID

Lab Sample ID: 890-3647-2

Client Sample ID: PH01A Date Collected: 12/13/22 09:55 **Matrix: Solid**

Date Received: 12/13/22 15:30

Batch Batch Dil Initial Final Batch Prepared Method Number **Prep Type** Type Run **Factor Amount** Amount or Analyzed **Analyst** Lab Total/NA 5035 42511 12/22/22 11:22 MNR EET MID Prep 5.05 g 5 mL 8021B Total/NA 5 mL 42588 12/25/22 00:08 AJ **EET MID** Analysis 5 mL 1 Total/NA Total BTEX Analysis 42610 12/26/22 16:25 AJ **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 42192 12/19/22 15:03 SM Total/NA Prep 8015NM Prep 10.01 g 10 mL 41930 12/15/22 14:22 DM **EET MID** Total/NA 8015B NM 41982 Analysis 1 uL 1 uL 12/17/22 03:42 SM **EET MID** Soluble 5.05 g 50 mL 01/04/23 11:00 KS Leach DI Leach 43131 **EET MID** 300.0 01/04/23 14:30 CH Soluble Analysis 1 43169 **EET MID**

Client Sample ID: PH02 Lab Sample ID: 890-3647-3

Date Collected: 12/13/22 10:25 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/25/22 00:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42330	12/23/22 01:11	SMC	EET MID

Client Sample ID: PH02A Lab Sample ID: 890-3647-4 Date Collected: 12/13/22 10:30 Matrix: Solid

Date Received: 12/13/22 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/25/22 00:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID

Eurofins Carlsbad

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Matrix: Solid

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3647-1 SDG: 03E1558093

Client Sample ID: PH02A

Lab Sample ID: 890-3647-4

Matrix: Solid

Date Collected: 12/13/22 10:30 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 04:26	SM	EET MID
Soluble	Leach	DI Leach			495 g	50 mL	41925	12/15/22 14:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42330	12/23/22 01:19	SMC	EET MID

Lab Sample ID: 890-3647-5

Client Sample ID: PH03 Date Collected: 12/13/22 10:10 **Matrix: Solid**

Date Received: 12/13/22 15:30

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/25/22 01:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 04:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42328	12/22/22 12:33	SMC	EET MID

Client Sample ID: PH03A Lab Sample ID: 890-3647-6 **Matrix: Solid**

Date Collected: 12/13/22 10:15 Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/25/22 01:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41930	12/15/22 14:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41982	12/17/22 05:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42328	12/22/22 12:59	SMC	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-3647-7 Date Collected: 12/13/22 09:35 Matrix: Solid

Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/25/22 01:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:35	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	41942 42078	12/15/22 15:21 12/18/22 06:27	DM SM	EET MID EET MID

Job ID: 890-3647-1

Client: Ensolum Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Client Sample ID: PH04 Lab Sample ID: 890-3647-7

Date Collected: 12/13/22 09:35 **Matrix: Solid** Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42328	12/22/22 13:08	SMC	EET MID

Client Sample ID: PH04A Lab Sample ID: 890-3647-8

Date Collected: 12/13/22 09:40 Matrix: Solid Date Received: 12/13/22 15:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42511	12/22/22 11:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42588	12/25/22 02:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42610	12/26/22 16:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42192	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 06:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41924	12/15/22 14:15	KS	EET MID
Soluble	Analysis	300.0		1	50 ml	50 ml	42328	12/22/22 13:17	SMC	FFT MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3647-1 Project/Site: PLU 27 BRUSHY DRAW 161H SDG: 03E1558093

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-22-25	06-30-23
,	s are included in this repo	rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
the agency does not	offer certification.			
the agency does not on Analysis Method	offer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Project/Site: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3647-1

SDG: 03E1558093

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total 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
Ol 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: PLU 27 BRUSHY DRAW 161H

Job ID: 890-3647-1

SDG: 03E1558093

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3647-1	PH01	Solid	12/13/22 09:50	12/13/22 15:30	0.5
890-3647-2	PH01A	Solid	12/13/22 09:55	12/13/22 15:30	1
890-3647-3	PH02	Solid	12/13/22 10:25	12/13/22 15:30	0.5
890-3647-4	PH02A	Solid	12/13/22 10:30	12/13/22 15:30	1
890-3647-5	PH03	Solid	12/13/22 10:10	12/13/22 15:30	0.5
890-3647-6	PH03A	Solid	12/13/22 10:15	12/13/22 15:30	1
890-3647-7	PH04	Solid	12/13/22 09:35	12/13/22 15:30	0.5
890-3647-8	PH04A	Solid	12/13/22 09:40	12/13/22 15:30	1

Chain of Custody

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Control Cont		and conditions ad the control	Its affiliates and subcontractors. It assigns standard terms a d by the client if such losses are due to circumstances beyor	Eurofins Xenco, expenses incurre	er from client company to	a valid purchase orde	mples constitutes	nt and relinquishment of sa	otice: Signature of this docume
Rear	Na Sr Tl Sn U V Zn 245.1 / 7470 / 7471	Se	Be B Cd Ca Cr Co Cu Fe Pb Mg I a Be Cd Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba A Sb As E	M Texas 11 Al ጊP 6010 : 8RCR	BRCRA 13PP TCLP/SF		200.8 / 6020: Metal(s) to be a	Total 200.7 / 6010 Circle Method(s) and
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Recurrence Record						1010			PHO3
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Houston, TX (231) 240-200. Dalba; TX (214) 902-0300	State				0.5	1025			PHOZ
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Recurrence Review Record	HTWO		X	X		1	12/13/2	\ <u>\</u>	PHOI
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Mork Order No: Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Mork Order No: Hobb, IM (215) 902-750, Garlabad, IM (575) 982-7399 Mork Order No: Mork Ord	Sample Comments			10	Grab/ Comp	Time Sampled			Sample Identifica
Carroffins Environment Testing Houston, TX (281) 240-200, Dallas, TX (291) 992-9330 Work Order No:	NaOH+ASCORDIC ACID: SAPC	_		ulc	0,0	Temperature:	Corrected		otal Containers:
Houston TX (281) 240-200. Dallss, TX (214) 902-0300	Zn Acetate+NaOH: Zn	of Custody	890-3647 Chain	n	8	are Reading:	Temperati	1 /	ample Custody Seals:
Houston, TX (281) 240-2200, Dallas, TX (214) 902-0300 Work Order No:	Na ₂ S ₂ O ₃ : NaSO ₃				10.0	Factor:	Correction		ooler Custody Seals:
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Houston, Tx (281) 240-4200, Dalles, TX (214) 902-0300 Work Order No:	H ₃ PO 4: HP					Wet Ice:	(Yes No	Temp Blank:	AMPLE RECEIPT
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Carlsbad, NM 88220 1089 N Canal St.

Eurofins Carlsbad

Chain of Custody Record

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Environment Testing

State, Zip: TX, 79701 PHO1 Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. PH04A S (890-3647-8) PH01A S (890-3647-2) Project Name PLU 27 BRUSHY DRAW 161H mpty Kit Relinquished by Deliverable Requested TII, III, IV Other (specify) ossible Hazard Identification ⁵H04 S (890-3647-7) °H03A S (890-3647-6) PH03 S (890-3647-5) 9H02A S (890-3647-4) PH02 S (890-3647-3) 132-704-5440(Tel) Midland Shipping/Receiving Client Information Phone: 575-988-3199 Fax. 575-988-3199 telinquished by sample Identification - Client ID (Lab ID) 211 W Florida Ave, elinquished by Custody Seals Intact. urofins Environment Testing South Centr inquished by S (890-3647-1) Yes S E (Sub Contract Lab) Custody Seal Z WO# Due Date Requested 12/19/2022 PO# Phone: Primary Deliverable Rank. 2 89000093 TAT Requested (days) Date/Time Date/Time roject #: 12/13/22 12/13/22 12/13/22 12/13/22 12/13/22 12/13/22 12/13/22 12/13/22 Date Mountain 09 40 Mountain 09 35 Mountain 10 15 Mountain 09 55 Mountain 10 10 Mountain 10 30 Mountain 10 25 Mountain 09 50 Time G=grab) (C=comp, Sample Preservation Code Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Kramer, Jessica Jessica Kramer@et.eurofinsus.com E-Mail Field Filtered Sample (Yes or No) IIme NELAP - Texas Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements itations Required (See note): 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks Received by: × × \times \times × × × × Return To Client × × × × × × × × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × 8021B/5035FP_Calc (MOD) BTEX × × × × × × \times × Analysis Requested × × × × × × × × Total_BTEX_GCV Disposal By Lab New Mexico State of Origin: Method of Shipment: Tracking No(s) Date/Time Date/Time: Archive For Total Number of containers J - Di Water K EDTA L EDA 43 estas: -16 A HCL
B NaOH
C TA Acetate
D- Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H - Ascorbic Acid COC No: 890-1064 1 Preservation 890-3647-1 Page 1 of 1 age: Special Instructions/Note U - Acetone
V MCAA
W - pH 4-5
Y Trizma
Z - other (specify) M - Hexane N None O - AsNaO2 P Na2O4S Q - Na2SO3 R Na2S2O3 S - H2SO4 Company Company Ver: 06/08/2021 TSP Dodecahydrate Months

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3647-1

SDG Number: 03E1558093

Login Number: 3647 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3647-1 SDG Number: 03E1558093

Login Number: 3647 **List Source: Eurofins Midland** List Creation: 12/15/22 11:29 AM List Number: 2

Creator: Teel, Brianna

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



APPENDIX E

NMOCD Notifications

Collins, Melanie

From: Green, Garrett J

Sent: Sunday, June 26, 2022 2:25 PM

To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Nobui,

Jennifer, EMNRD

Cc: Pennington, Shelby G; DelawareSpills /SM

Subject: XTO 24 Hour Notification - PLU 27 BD 161 - 6-25-22

All,

This is notification of a release greater than 25 barrels that occurred yesterday at the PLU 27 BD 161 near the GPS coordinates given below. Most of the fluids remained in containment and all standing fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.101099 ,-103.875143

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

Tacoma Morrissey

From: Kalei Jennings

Sent: Monday, September 12, 2022 9:31 AM

To: Tacoma Morrissey

Subject: FW: (Extension Approval) - XTO - PLU 27 Brushy Draw 161H (Incident Numbers NAPP2217546910,

NAPP2218236445, NAPP2218943007)

FYI



From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Monday, September 12, 2022 8:59 AM

To: Collins, Melanie < melanie.collins@exxonmobil.com >

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Kalei Jennings <kjennings@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>; Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn,

EMNRD <Jocelyn.Harimon@state.nm.us>

Subject: (Extension Approval) - XTO - PLU 27 Brushy Draw 161H (Incident Numbers NAPP2217546910,

NAPP2218236445, NAPP2218943007)

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2217546910, NAPP2218236445, NAPP2218943007

Melanie,

Your request for an extension to **December 9th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure reports.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Collins, Melanie < melanie.collins@exxonmobil.com >

Sent: Friday, September 9, 2022 3:12 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Hamlet,

Robert, EMNRD < Robert.Hamlet@state.nm.us>

Cc: DelawareSpills /SM <<u>DelawareSpills@exxonmobil.com</u>>; Kalei Jennings <<u>kjennings@ensolum.com</u>>; Green, Garrett J

<garrett.green@exxonmobil.com>; Pennington, Shelby G <<u>shelby.g.pennington@exxonmobil.com</u>>

Subject: [EXTERNAL] XTO - Extension Requests PLU 27 Brushy Draw 161H (Incident Numbers NAPP2217546910,

NAPP2218236445, NAPP2218943007)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

PLU 27 Brushy Draw 161H (Incident Numbers NAPP2217546910, NAPP2218236445, NAPP2218943007)

XTO is requesting an extension for the current deadlines of September 10, 2022, September 20, 2022, and September 23, 2022 for submitting a remediation work plan, closure, or deferral report required in 19.15.29.12.B.(1) NMAC at the PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910, NAPP2218236445, NAPP2218943007). The releases occurred on June 12, 2022, June 22, 2022, and June 25, 2022, respectively. Fluids were released into containment and onto pad during frac operations. Initial assessment of the releases has not been completed. Remediation activities cannot proceed until frac operations are complete. XTO operations will provide status updates and indicate when the Site is clear for remediation activities to commence.

Due to all three releases occurring on the same pad, delineation and remediation activities are scheduled to be completed concurrently. XTO requests to extend the deadline to complete remediation activities and submit a closure or deferral report for Incident Numbers NAPP2217546910, NAPP2218236445, NAPP2218943007 to December 9, 2022, which is a 90-day extension of the due date for the first release.

Thank you,

Melanie Collins

ENERGY

Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

Tacoma Morrissey

From: Green, Garrett J < garrett.green@exxonmobil.com>

Sent: Thursday, December 8, 2022 10:38 AM

To: ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert,

EMNRD

Cc: DelawareSpills /SM; Tacoma Morrissey

Subject: XTO - Sampling Notification (Week of 12/12/22 - 12/16/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Dec 12, 2022.

- PLU 27 BD 161H / nAPP2217546910, nAPP2218236445, nAPP2218943007
- PLU 18 TWR Sat Battery/ nAPP2230551957
- Pickett Draw Federal #001/ NAB1919955454

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

Tacoma Morrissey

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Thursday, December 29, 2022 10:35 AM

To: Green, Garrett J; Collins, Melanie

Cc: DelawareSpills /SM; Ashley Ager; Tacoma Morrissey; Ben Belill; Kalei Jennings; Stuart Hyde; Bratcher,

Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD

Subject: (Extension Denied) XTO -PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910,

NAPP2218236445, and NAPP2218943007)

EXTERNAL EMAIL

RE: Incident #NAPP2217546910

Garrett,

An extension for these releases have already been granted. Your request for another extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Wednesday, December 28, 2022 8:52 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Collins, Melanie <melanie.collins@exxonmobil.com>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Ashley Ager <aager@ensolum.com>; Tacoma Morrissey
<tmorrissey@ensolum.com>; bbelill@ensolum.com; Kalei Jennings <kjennings@ensolum.com>; shyde@ensolum.com;

Pratisher, Mishael EMNRD <mike hratsher@emnrd nm gov>; Nebui Jennifer, EMNRD

Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>

Subject: [EXTERNAL] RE: XTO-Extension Request-PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910,

NAPP2218236445, and NAPP2218943007)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Hamlet,

As requested, please see the attached laboratory analytical reports and the Form C-141 detailing the Site Characterization. The analytical reports include results from soil samples collected from the release extent during the initial site assessment conducted on December 7, 2022, immediately following the completion of XTO flowback

operations. More extensive delineation activities were conducted on December 12, 2022 and December 13, 2022, but analytical data is currently pending.

NMOCD should note that there were multiple releases, all of which occurred on pad. Initial surface samples collected within one release extent met the most stringent closure criteria. Initial samples from a second release contained chloride concentrations ranging from 621 mg/kg to 6,580 mg/kg, which met Table I closure criteria.

As explained above, we have not received all delineation analytical results but results from the initial assessment indicate four lateral delineation samples were below the most stringent closure criteria and the release stayed on pad.

In order to review pending laboratory analytical results from the delineation event and submit a Closure Request or Remediation Work Plan for Incident Numbers NAPP2217546910, NAPP2218236445, and NAPP2218943007, XTO requests a shorter, 30-day extension until January 22, 2022.

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

From: Hamlet, Robert, EMNRD [mailto:Robert.Hamlet@emnrd.nm.gov]

Sent: Friday, December 9, 2022 10:37 AM

To: Collins, Melanie < melanie.collins@exxonmobil.com >

Cc: DelawareSpills /SM < DelawareSpills@exxonmobil.com >; Green, Garrett J < garrett.green@exxonmobil.com >; Ashley Ager < aager@ensolum.com >; Tacoma Morrissey < tmorrissey@ensolum.com >; bbelill@ensolum.com; Kalei Jennings < kjennings@ensolum.com >; shyde@ensolum.com; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Nobui, Jennifer, EMNRD < Jennifer.Nobui@emnrd.nm.gov >; Harimon, Jocelyn, EMNRD < Jocelyn.Harimon@emnrd.nm.gov > Subject: XTO-Extension Request-PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910, NAPP2218236445, and NAPP2218943007)

External Email - Think Before You Click

Melanie,

An extension for these releases has already been granted. We are almost at 180 days from the release dates. The OCD requests a Site Assessment/Characterization before another extension can be granted. Please email the Site Assessment with soil sample results after the lab samples come back. At that point we can take a look at granting another extension.

Regards,

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau

EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Collins, Melanie < melanie.collins@exxonmobil.com >

Sent: Friday, December 9, 2022 10:18 AM

To: Enviro, OCD, EMNRD < CD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>;

Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Green, Garrett J <garrett.green@exxonmobil.com>; Ashley

Ager <aager@ensolum.com>; Tacoma Morrissey <<u>tmorrissey@ensolum.com</u>>; <u>bbelill@ensolum.com</u>; Kalei Jennings <kjennings@ensolum.com>; shyde@ensolum.com

Subject: [EXTERNAL] XTO-Extension Request-PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910,

NAPP2218236445, and NAPP2218943007)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910, NAPP2218236445, and NAPP2218943007)

XTO is requesting an extension for the current deadline of December 9, 2022 for submitting a remediation work plan, closure, or deferral report required in 19.15.29.12.B.(1) NMAC at the PLU 27 Brush Draw 161H (Incident Numbers NAPP2217546910, NAPP2218236445, and NAPP2218943007). The releases occurred on June 12, 2022, June 22, 2022, and June 25, 2022, respectively. Fluids were released into a temporary containment and onto the well pad during frac operations. Remediation activities have been delayed due to XTO flowback operations onsite. XTO flowback operations cleared the site on December 5, 2022. An initial site assessment of the releases was completed on December 6, 2022 and analytical data is currently pending. Excavation activities are scheduled to begin December 12, 2022. XTO requests to extend the deadline to complete remediation activities and submit a closure or deferral report for Incident Numbers NAPP2217546910, NAPP2218236445, and NAPP2218943007 to February 7, 2022, which is a 60-day extension of the current due date.

Thank you,

Melanie Collins



Environmental Technician melanie.collins@exxonmobil.com

432-556-3756



APPENDIX F

Friction Reducer SDS



SAFETY DATA SHEET

Issuing Date 01-Aug-2019 Revision Date 01-Aug-2019 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name POLYglide Xcel-200

Other means of identification

Product Code(s) 10497

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

Details of the supplier of the safety data sheet

<u>Supplier Address</u> <u>Manufacturer Address</u>

PfP Industries PfP Industries 29738 Goynes Rd. 29738 Goynes Rd. Katy, TX 77493 Katy, TX 77493

Emergency telephone number

Company Phone Number 281-371-2000

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 4

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Combustible liquid

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Appearance Opaque Physical state Liquid Odor Mineral Oil

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

May be harmful in contact with skin Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	40 - 70	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination.

Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

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10497 - POLYglide Xcel-200

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular

national regulations. Store in accordance with local regulations.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Opaque

Color Milky white to yellow

Odor Mineral Oil

Odor threshold No information available

Property Values Remarks • Method

 pH
 No data available
 None known

 Melting point / freezing point
 No data available
 None known

 Boiling point / boiling range
 No data available
 None known

Flash point >= 67 °C / 153 °F

Evaporation rate No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air None known

Upper flammability limit: No data available

Lower flammability limit: No data available
Vapor pressure No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 0.97 - 1.03

 Water solubility
 Miscible in water

 Solubility in other solvents
 No data available
 None known

 Partition coefficient
 No data available
 None known

 Autoignition temperature
 No data available
 None known

 Decomposition temperature
 No data available
 None known

Kinematic viscosity ≥150 mm²/s

Dynamic viscosity No data available None known

Explosive properties No information available Oxidizing properties No information available

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Revision Date 01-Aug-2019

Other Information

Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk density** No information available

10. STABILITY AND REACTIVITY

No information available. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 5,005.00 mg/kg ATEmix (dermal) 2,002.00 mg/kg

ATEmix (inhalation-dust/mist) 5.20 mg/l

Component Information

			9	
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

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Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates,	-	2.4: 96 h Oncorhynchus	15.6	4720: 96 h
hydrotreated light		mykiss mg/L LC50 static		Den-dronereides
64742-47-8		45: 96 h Pimephales		heteropoda mg/L LC50
55 59		promelas mg/L LC50		10-10 10-000 Tr (F) NO.
		flow-through 2.2: 96 h		
		Lepomis macrochirus		
		mg/L LC50 static		

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3))

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Does not comply
IECSC Complies
KECL Complies

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PICCS Complies AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

10.0000 and 10.00 are 10.00 and 10.00 are 10.00 are 10.00 are 10.00 are 10.00 and 10.00 are 10.

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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 2 Instability 0 Physical and chemical

properties -

HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection X

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

Disclaimer

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End of Safety Data Sheet

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

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

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

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

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

CONDITIONS

Action 177226

CONDITIONS

Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	177226	
	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 #NAPP2218943007 PLU 27 BRUSHY DRAW 161H, thank you. This closure is approved.	5/18/2023