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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 iten	ns must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC I	District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a conshould their operations have failed to adequately investigate and remechangen human health or the environment. In addition, OCD acceptance of a Compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditaccordance with 19.15.29.13 NMAC including notification to the OCI Printed Name: _Garrett Green	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially itions that existed prior to the release or their final land use in
OCD Only	
Received by: Jocelyn Harimon	Date:05/04/2023
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: Robert Hamlet	Date: 9/19/2023
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	NAPP2306152871
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID 5	5380		
Contact Name Garrett Green			Contact Te	elephone 575-200	0-0729	
Contact ema	il garrett.gre	en@exxonmobil.c	om	Incident #	(assigned by OCD)	
Contact mail	ing address	3104 E. Greene St	reet, Carlsbad, Ne	w Mexico, 88220		
			Location	of Release So		
Latitude32	2.22527			Longitude _	-103.93078	
			(NAD 83 in dec	rimal degrees to 5 decim	ial places)	
Site Name I	PLU Pierce (Canyon 12 Battery		Site Type	Tank Battery	
Date Release	Discovered	02/17/2023		API# (if app	licable)	
		I				
Unit Letter	Section	Township	Range	Coun	•	
P	12	24S	29E	Eddy	y	
Surface Owner	r: 🗆 State	➤ Federal ☐ Tr	ribal 🗌 Private (A	Jame:)
Surface of time.	🗀 Siaic					
			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		•	Volume Recov	
Produced	Water	Volume Release	d (bbls)		Volume Recov	vered (bbls)
	Is the concentration of total dissolved solids (TD		` /	☐ Yes ☐ No)	
in the produced water >10,000 mg/l? Condensate Volume Released (bbls)		/[?	Volume Recov	vered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recov			
Other (describe) Volume/Weight Released (provide units)		· unite)		ht Recovered (provide units)		
Volume/ weight Released (provide units)		, units)	Volume/ Weigi	nt Recovered (provide dints)		
Cause of Rel	ease Electric	l vian rangirad kill s	witch cousing pur	nning unit to start 1	tank to overflow	, and fluid to release to containment and
	ground.	. Vac trucks recov	ered all free fluids	. A third-party cont	ractor has been i	retained for remediation purposes.
	_					· ·

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Page 2 Oil Conservation Division

	Puge 6 App
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Was this a major	If VES for what reason(s) does the respo	nsible party consider this a major release?
release as defined by	A release greater than 25 barrels.	nsiole party consider and a major resease.
19.15.29.7(A) NMAC?		
🗷 Yes 🗌 No		
If YES, was immediate n	notice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?
		el, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet,
Robert, EMNRD on 02/20	0/2023 via email.	
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
Released materials h	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
★ All free liquids and r	recoverable materials have been removed ar	d managed appropriately.
If all the actions describe	ed above have <u>not</u> been undertaken, explain	why:
NA		
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a thr	eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	of a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name: Garrett G	Freen	Title: SSHE Coordinator
Signature:	ireen M Suur	Date: 2/28/2023
		Telephone: 575-200-0729
email: garrett.green@exx		Telephone:
OCD Only		
Received by: Jocelyr	n Harimon	Date: 03/02/2023
Received by		Date:03/02/2023_

0.00 bbls

Location:	PLU Pierce Canyon 12 Battery		
Spill Date:	2/17/2023		
	Area 1		
Approximate A	rea =	387.41	cu.ft.
	VOLUME OF LEAK		
Total Crude Oil	=	69.00	bbls
Total Produced	Water =	0.00	bbls
	Area 2		
Approximate A	rea =	3144.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.25	inches
Average Porosi	ty Factor =	0.15	
	, , , , , , , , , , , , , , , , , , , ,	0.120	<u>I</u>
	VOLUME OF LEAK		
Total Crude Oil	=	1.75	bbls
Total Produced	Water =	0.00	bbls
	Area 3		
Approximate A	rea =	860.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil		0.19	bbls
Total Produced	Water =		bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil		70.94	bbls
Total Produced			bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	69.00	bbls

Total Produced Water =

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 192633

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	192633
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	3/2/2023

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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	ls.

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

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

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District RP
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Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name: _Garrett Green	Title: _Environmental Coordinator							
Signature:Sate Surv	Date:4/28/2023							
email: _garrett.green@exxonmobil.com	Telephone:575-200-0729							
OCD Only								
Received by: Jocelyn Harimon	Date:05/04/2023							

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Incident ID	NAPP2306152871
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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 photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OI	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 regulates reclaim, and re-vegetate the impacted surface area to the conceptance with 19.15.29.13 NMAC including notification to the Printed Name: _Garrett Green	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by: Jocelyn Harimon	Date:05/04/2023
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



April 28, 2023

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

Re: Closure Request

PLU Pierce Canyon 12 Battery Incident Number NAPP2306152871

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 assessment and soil sampling activities performed at the PLU Pierce Canyon 12 Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a crude oil release. Based on field observations and laboratory analytical results, XTO is submitting this *Closure Request* describing Site assessment and excavation activities that have occurred and requesting no further action for Incident Number NAPP2306152871.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 12, Township 24 South, Range 29 East, in Eddy County, New Mexico (32.22527°, -103.78258°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 17, 2023, the pumping unit started inadvertently and caused the crude oil tank to overflow, resulting in the release of 70.94 barrels (bbls) of crude oil into a lined containment and adjacent pasture area. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; and 69.00 bbls were recovered. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD). A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO reported the release to NMOCD via email on February 20, 2023 and submitted a Release Notification Form C-141 (Form C-141) on February 28, 2023. The release was assigned Incident Number NAPP2306152871.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geographical Survey (USGS) well 321321103544101, located approximately 1.1 miles east of the Site. The groundwater well has a reported depth to groundwater of

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

XTO Energy Inc Closure Request PLU Pierce Canyon 12 Battery

168 feet bgs. The total depth of the well has not been recorded. All wells used to determine depth to groundwater are depicted on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 500 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area of where the release extent occurred, per 19.15.29.13.D (1) NMAC.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between March 13 and March 30, 2023, Site assessment and delineation activities were conducted to evaluate the release extent based on information provided on the Form C-141. Seven delineation soil samples (SS01 through SS06) were collected within and around the release extent and lined containment at a depth of 0.5 feet bgs. Three lateral delineation soil samples (SS04 through SS06) were collected at a depth of 0.5 feet bgs to confirm the release did not extend outside the lined containment towards the north, south, or east. One borehole (BH01) was advanved by use of hand auger at the location of the tear in the liner identified during the liner integrity inspection. Three additional boreholes (SS01/SS01A through SS03/SS03A) were advanced via hand auger and were collected within the release extent in the vicinity of soil samples SS01 through SS03, respectively. Discrete delineation soil samples were collected in each borehole from the terminal depth of 1-foot bgs. Field screening results and observations from all boreholes were documented on a lithologic/soil sampling log, which is included as Appendix B. Borehole BH01 was backfilled with the soil removed and XTO repaired the tear in the liner. Delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The liner containment, release extent, and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit and a photographic log is included in Appendix C.

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 constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range



XTO Energy Inc Closure Request PLU Pierce Canyon 12 Battery

organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilabrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

EXCAVATION ACTIVITIES

On March 30, 2023, Ensolum personnel oversaw excavation activities. Soil was excavated from the release extent in the area represented by delineation soil samples SS01 through SS03, which contained elevated TPH concentrations. Excavation activities were performed by use of heavy equipment. The excavation occurred in the adjacent pasture area, west of the liner containment. To direct excavation activities, Ensolum personnel screened soil as described above.

Following removal of soil, Ensolum personnel collected 5-point composite soil samples representing up to 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS06 were collected from the floor of the excavation at approximately 1-foot bgs. Due to the shallow nature of the excavation, the sidewalls were included in the composite floor samples. The excavation soil samples were field screened, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 1,089 square feet. A total of approximately 45 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS03 indicated TPH concentrations exceed the reclamation requirement for pasture soils in the top 4 feet. All other delineation and excavation soil samples collected indicated COC concentrations were compliant with the Closure Criteria and the reclamation requirement for pasture soils. This includes borehole BH01, which was advanced within the lined containment area and results indicated COC concentrations were compliant with the strictest Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to assess for the presence or absence of impacted soil from the February 17, 2023 release of crude oil into the lined containment and adjacent pasture area, west of the containment. Following the failed liner integrity inspection at the Site, Ensolum personnel advanced borehole BH01 at the location of the tear in the liner to assess for the potential for impacts underlying the liner containment. Lateral soil samples SS04 through SS06 were collected north, south, and east of the containment area. Laboratory analytical results for BH01 and SS04 through SS06 indicated all COC concentrations were in compliance with the Closure Criteria. Excavation activities were completed based on laboratory analytical results for delineation soil samples SS01 through SS03 which indicated TPH concentrations exceeded the reclamation requirement. All excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Closure Criteria as well as the reclamation requirement. Based on the soil sample analytical results, no further remediation was required. The tear in the liner was subsequently repaired and the excavation will be backfilled with material purchased locally and the



XTO Energy Inc Closure Request PLU Pierce Canyon 12 Battery

Site will be recontoured to match pre-existing site conditions. The pasture area will be seeded utilizing a BLM-approved seed mixture for this area.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tear in the liner, and excavation of impacted soil, XTO respectfully requests closure for Incident Number NAPP2306152871.

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

ashley L. ager

Principal

Ashley L. Ager, M.S., PG

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Project Geologist

cc: Garrett Green, XTO Shelby Pennington, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

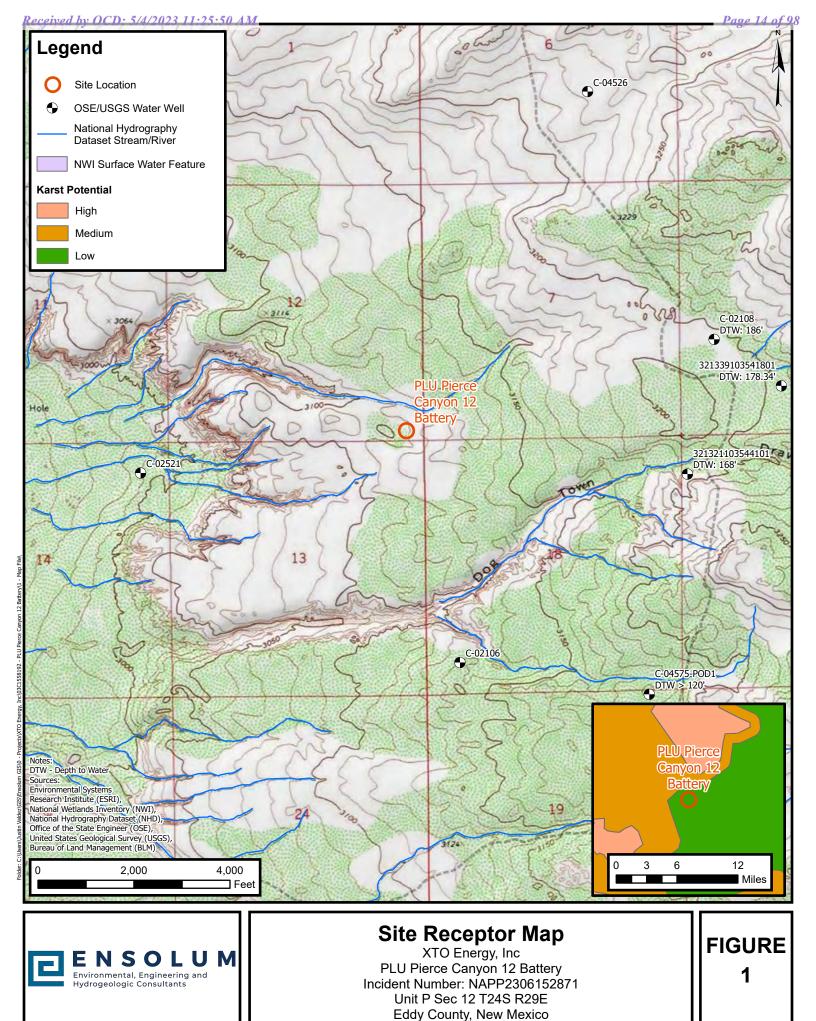
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Sample Notification

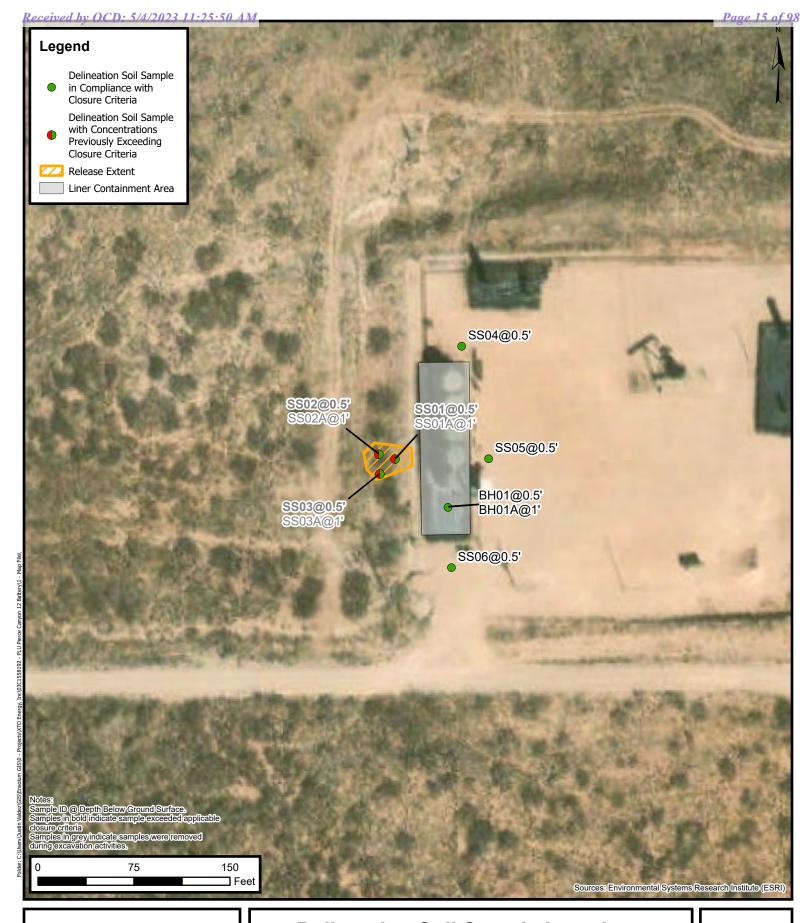




FIGURES



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Delineation Soil Sample Locations

XTO Energy, Inc PLU Pierce Canyon 12 Battery Incident Number: NAPP2306152871 Unit P Sec 12 T24S R29E Eddy County, New Mexico FIGURE 2

Released to Imaging: 9/20/2023 8:49:23 AM





Excavation Soil Sample Locations

XTO Energy, Inc
PLU Pierce Canyon 12 Battery
Incident Number: NAPP2306152871
Unit P Sec 12 T24S R29E
Eddy County, New Mexico

FIGURE 3

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TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Pierce Canyon 12 Battery 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 C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sai	nples				
SS01	03/13/2023	0.5	<0.00199	0.0306	< 50.0	243	<50.0	243	243	10.6
SS01A	03/30/2023	4	<0.00199	<0.00398	<49.8	<49.8	<4 9.8	<49.8	<49.8	52.4
\$\$02	03/13/2023	0.5	< 0.00200	0.133	< 50.0	646	118	646	764	44.2
SS02A	03/30/2023	4	< 0.00200	<0.00399	<49.8	76.1	<49.8	76.1	76.1	51.7
SS03	03/13/2023	0.5	< 0.00201	0.0361	<49.9	133	<49.9	133	133	20.4
SS03A	03/30/2023	4	<0.00198	0.0101	<49.9	<49.9	<49.9	<49.9	<49.9	69.3
SS04	03/30/2023	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	462
SS05	03/30/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	145
SS06	03/30/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	54.2
BH01	03/30/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	150
BH01A	03/30/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	98.7
				Confi	rmation Soil Sa	mples				
FS01	03/30/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	41.9
FS02	03/30/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	46.1
FS03	03/30/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	65.7
FS04	03/30/2023	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	46.3
FS05	03/30/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	63.1
FS06	03/30/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	46.4

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

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 Groundwater ∨ United States ∨ GO

* We've detected you're using a mobile device. Find our Next Generation Station Page here.

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321321103544101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321321103544101 24S.30E.18.22144

Eddy County, New Mexico

Latitude 32°13'21", Longitude 103°54'41" NAD27

Land-surface elevation 3,192 feet above NAVD88

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

Output	formats
--------	---------

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1983-02-01		D	62610		3022.15	NGVD29	1	Z			Α
1983-02-01		D	62611		3023.80	NAVD88	1	Z			Α
1983-02-01		D	72019	168.20			1	Z			Α
1987-10-15		D	62610		3021.73	NGVD29	1	S			Α
1987-10-15		D	62611		3023.38	NAVD88	1	S			Α
1987-10-15		D	72019	168.62			1	S			А
1992-11-04		D	62610		3022.03	NGVD29	1	S			Α
1992-11-04		D	62611		3023.68	NAVD88	1	S			Α
1992-11-04		D	72019	168.32			1	S			Α
1998-01-27		D	62610		3022.27	NGVD29	1	S			А
1998-01-27		D	62611		3023.92	NAVD88	1	S			Α
1998-01-27		D	72019	168.08			1	S			Α

	Expl	anation
--	------	---------

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
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** Subscribe for system changes News

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-03-09 13:42:15 EST 0.28 0.25 nadww02

USA.gov



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 3/30/2023
1							B.4	Site Name: PLU Pierce Canyo	
			N	5	U	_ U	V	Incident Number: nAPP23058	
		_				Job Number: 03C1558190	JJJ743		
		LITHOL	OGI	r / soli s	SAMPLING	S LOG		Logged By: CW	Method: hand auger
Coord		2.225218			DAIVIF LINC	, 100		Hole Diameter: 3.5"	Total Depth: 1'
					ith HACH Ch	oloride Test '	Strins and	PID for chloride and vapor, re	*
			_		il to distilled		oti ipo aira	Tib for emoriae and vapor, re	espectively. Cilionae test
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		: Descriptions
					1	0	CCHE	0-0.5', CALICHE, light br unconsolidated fill, no	own-tan, moist, stain. no odor.
М	<168	0.0	Ν	BH01	0.5	- -	CL	unconsolidated fill, no 0.5'-0.75', CLAY, brown,	, moist, low plasticity,
D	<168	0.1	N	BH01A	1	_ 1	CCHF	cohesive, no stain, no 0.75'-1', CALICHE, tan, c	ogor. drv. moderately
		J	•	2				consolidated, no stain Total Depth at 1-foot be	, no odor.
					=	=	TD	Total Depth at 1-foot by	ζς.
					-	_ 2			
					-	-			
						-			
					-	_ 3			
					- - -	- - 4			
					- - -	- _ 5 -			
					- - -	<u> </u>			
					- - -	- - 7 -			
					- - -	- - 8 -			
					- - -	- - 9 -			
					- - - -	_ _ 10			
					-	- - 11			
					-	12			

								Sample Name: SS01	Date: 3/30/2023
7								Site Name: PLU Pierce Canyo	
			N	5	0 1	Incident Number: nAPP2305833429			
						Job Number: 03C1558190	UJJ44ZJ		
		IITUOI	UGI	C / SOIL 6	SAMPLING	106		Logged By: CW	Method: hand auger
Coord		2.225321			MIVIFLING	LOG		Hole Diameter: 3.5"	Total Depth: 1'
					/ith HACH Ch	nloride Test	Strins and	PID for chloride and vapor, r	· ·
					il to distilled		otrips and	Tib for emoriae and vapor, i	espectively. Cilionae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D	<168	0.0	Ν	SS01	0.5 _	0	SP	0-1', SAND, brown-light graded, fine grained, roots, no stain, no od	t brown, dry, poorly some caliche gravel, trace lor.
D	<168	0.0	N	SS01A	1	_ 1			
						2 - 2 - 3	TD	Total Depth at 1-foot b	gs.
					-	_ 4 - - - 5			
						- - - 6			
					- - -	- - - 7			
					- - -	- _ 8 -			
					- - -	- - -			
					- - -	10 - -			
					- - -	_ 11 - - - 12			

							Sample Name: SS02	Date: 3/30/2023
							Site Name: PLU Pierce Canyon	
		N	3	0 1	Incident Number: nAPP2305833429			
					Job Number: 03C1558190			
	LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: CW	Method: hand auger
Coordinates: 3							Hole Diameter: 3.5"	Total Depth: 1'
				ith HACH Ch	nloride Test		PID for chloride and vapor, resp	· ·
performed wi						•	1 / 1	,
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	
D <168		N N	SS02 SS02A	0.5 _ 1 _	0	SP	0-1', SAND, brown-light b graded, fine grained, so roots, no stain, no odor	rown, dry, poorly me caliche gravel, trace
					- 2 - 2 - 3 - 4 - 5 - 7 - 7 - 8 - 7 - 8 - 9 - 10 - 11	TD	Total Depth at 1-foot bgs.	

						Sample Name: SS03	Date: 3/30/2023
						Site Name: PLU Pierce Canyon 12	
	IN	3	OL	Incident Number: nAPP230583342			
				Job Number: 03C1558190			
LIT	HOLOGIC	C / SOIL S	AMPLING	LOG		Logged By: CW	Method: hand auger
LITHOLOGIC / SOIL SAMPLING LOG Coordinates: 32.225290, -103.930853						Hole Diameter: 3.5"	Total Depth: 1'
			ith HACH Ch	loride Test :		PID for chloride and vapor, respec	· ·
performed with 1:4							
Moisture Content Chloride (ppm)	(ppm) Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
	0.0 N 0.0 N	SS03 SS03A	0.5	[0 - - _ 1		0-1', SAND, brown-light bro graded, fine grained, some roots, no stain, no odor.	wn, dry, poorly e caliche gravel, trace
	J.O IN	3303A		2	TD	Total Depth at 1-foot bgs.	



APPENDIX C

Photographic Log



Photographic Log
XTO Energy, Inc
PLU Pierce Canyon 12 Battery
Incident Number NAPP2306152871





Photograph 1 Date: 3/13/2023

Description: Site assessment, release extent area

View: South

Photograph 2 Date: 3/3/2023

Description: Liner containment area

View: South





Photograph 3 Date: 3/3/2023

Description: Failed liner inspection

View: Northeast

Photograph 4 Date: 3/30/2023

Description: Liner patched following delineation

View: Northwest



Photographic Log
XTO Energy, Inc
PLU Pierce Canyon 12 Battery
Incident Number NAPP2306152871





Photograph 5 Date: 3/30/2023

Description: Delineation activities in pasture area

View: East

Photograph 6 Date: 3/30/2023

Description: Excavation activities

View: Northwest





Date: 3/30/2023

Photograph 3

Description: Excavation extent

View: East

Photograph 4

Description: Excavation extent

View: North

Date: 3/30/2023



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/25/2023 3:38:06 PM

JOB DESCRIPTION

PLU Peirce Canyon 12 SDG NUMBER 3C1558192

JOB NUMBER

890-4297-1

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 3/25/2023 3:38:06 PM

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

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

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14

Client: Ensolum
Project/Site: PLU Peirce Canyon 12
Laboratory Job ID: 890-4297-1
SDG: 3C1558192

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Definitions/Glossary

Job ID: 890-4297-1 Client: Ensolum Project/Site: PLU Peirce Canyon 12

SDG: 3C1558192

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

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.

GC Semi VOA

Qualifier **Qualifier Description**

LCS/LCSD 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**

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

Decision Level Concentration (Radiochemistry) DLC

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

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

Minimum Detectable Concentration (Radiochemistry) MDC

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-4297-1 Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

Job ID: 890-4297-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4297-1

Receipt

The samples were received on 3/14/2023 8:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49246 and analytical batch 880-49364 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4295-A-12-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48781 and analytical batch 880-48812 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48781/2-A) and (MB 880-48781/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Job ID: 890-4297-1

Client: Ensolum Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

Client Sample ID: SS01 Lab Sample ID: 890-4297-1

Date Collected: 03/13/23 02:50 Matrix: Solid Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199	mg/Kg		03/22/23 16:31	03/24/23 22:15	1
Toluene	0.00789	F1 F2	0.00199	mg/Kg		03/22/23 16:31	03/24/23 22:15	1
Ethylbenzene	0.00653	F1 F2	0.00199	mg/Kg		03/22/23 16:31	03/24/23 22:15	1
m-Xylene & p-Xylene	0.0102	F1 F2	0.00398	mg/Kg		03/22/23 16:31	03/24/23 22:15	1
o-Xylene	0.00601	F1 F2	0.00199	mg/Kg		03/22/23 16:31	03/24/23 22:15	1
Xylenes, Total	0.0162	F1 F2	0.00398	mg/Kg		03/22/23 16:31	03/24/23 22:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/22/23 16:31	03/24/23 22:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130			03/22/23 16:31	03/24/23 22:15	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0306		0.00398	mg/Kg			03/25/23 16:19	1
Method: SW846 8015 NM - Diese	al Pange Organ	ice (DRO) ((GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
								
Total TPH	243		50.0	mg/Kg			03/21/23 09:53	1
- -		nics (DRO)		mg/Kg			03/21/23 09:53	1
Total TPH - Method: SW846 8015B NM - Dies Analyte	sel Range Orga	nics (DRO) Qualifier		mg/Kg Unit		Prepared	03/21/23 09:53 Analyzed	
Method: SW846 8015B NM - Dies	sel Range Orga	Qualifier	(GC)		<u>D</u>	Prepared 03/16/23 14:57		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	Qualifier	(GC)	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <50.0	Qualifier U	(GC) RL 50.0	Unit mg/Kg	<u>D</u>	03/16/23 14:57	Analyzed 03/17/23 03:34	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	Qualifier U	(GC) RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 14:57	Analyzed 03/17/23 03:34 03/17/23 03:34	Dil Fac 1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 243 <50.0	Qualifier U	(GC) RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 14:57 03/16/23 14:57 03/16/23 14:57	Analyzed 03/17/23 03:34 03/17/23 03:34 03/17/23 03:34	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <50.0 243 <50.0 %Recovery	Qualifier U	(GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 14:57 03/16/23 14:57 03/16/23 14:57 <i>Prepared</i>	Analyzed 03/17/23 03:34 03/17/23 03:34 03/17/23 03:34 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 14:57 03/16/23 14:57 03/16/23 14:57 Prepared 03/16/23 14:57	Analyzed 03/17/23 03:34 03/17/23 03:34 03/17/23 03:34 Analyzed 03/17/23 03:34	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 14:57 03/16/23 14:57 03/16/23 14:57 Prepared 03/16/23 14:57	Analyzed 03/17/23 03:34 03/17/23 03:34 03/17/23 03:34 Analyzed 03/17/23 03:34	

Client Sample ID: SS02 Lab Sample ID: 890-4297-2

Date Collected: 03/13/23 02:35 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/23 16:31	03/24/23 22:36	1
Toluene	0.0545		0.00200	mg/Kg		03/22/23 16:31	03/24/23 22:36	1
Ethylbenzene	0.0268		0.00200	mg/Kg		03/22/23 16:31	03/24/23 22:36	1
m-Xylene & p-Xylene	0.0363		0.00399	mg/Kg		03/22/23 16:31	03/24/23 22:36	1
o-Xylene	0.0157		0.00200	mg/Kg		03/22/23 16:31	03/24/23 22:36	1
Xylenes, Total	0.0520		0.00399	mg/Kg		03/22/23 16:31	03/24/23 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/22/23 16:31	03/24/23 22:36	

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Matrix: Solid

Job ID: 890-4297-1

Client: Ensolum Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

Client Sample ID: SS02 Lab Sample ID: 890-4297-2

Date Collected: 03/13/23 02:35 Matrix: Solid Date Received: 03/14/23 08:17

Sample Depth: 0.5

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107	70 - 130	03/22/23 16:31	03/24/23 22:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Total BTEX	0.133		0.00399	mg/Kg			03/25/23 16:19	1		

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	764	50.0	mg/Kg			03/21/23 09:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/16/23 14:57	03/17/23 03:56	1
Diesel Range Organics (Over C10-C28)	646		50.0	mg/Kg		03/16/23 14:57	03/17/23 03:56	1
Oll Range Organics (Over C28-C36)	118		50.0	mg/Kg		03/16/23 14:57	03/17/23 03:56	1

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93	70 - 130	03/16/23 14:57	03/17/23 03:56	1
o-Terphenyl	101	70 - 130	03/16/23 14:57	03/17/23 03:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	44.2	4.95	mg/Kg			03/20/23 15:55	1	

Lab Sample ID: 890-4297-3 **Client Sample ID: SS03** Date Collected: 03/13/23 02:40 **Matrix: Solid**

Date Received: 03/14/23 08:17 Sample Depth: 0.5

Analyte

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		03/22/23 16:31	03/24/23 22:57	-
Toluene	0.0117		0.00201	mg/Kg		03/22/23 16:31	03/24/23 22:57	
Ethylbenzene	0.00726		0.00201	mg/Kg		03/22/23 16:31	03/24/23 22:57	
m-Xylene & p-Xylene	0.0130		0.00402	mg/Kg		03/22/23 16:31	03/24/23 22:57	
o-Xylene	0.00417		0.00201	mg/Kg		03/22/23 16:31	03/24/23 22:57	
Xylenes, Total	0.0172		0.00402	mg/Kg		03/22/23 16:31	03/24/23 22:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/22/23 16:31	03/24/23 22:57	
1,4-Difluorobenzene (Surr)	95		70 - 130			03/22/23 16:31	03/24/23 22:57	

RL

0.00402

Unit

mg/Kg

Prepared

Analyzed

03/25/23 16:19

Result Qualifier

0.0361

Dil Fac

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4297-1 Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

Client Sample ID: SS03 Lab Sample ID: 890-4297-3

Date Collected: 03/13/23 02:40 Date Received: 03/14/23 08:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	133		49.9	mg/Kg			03/21/23 09:53	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/16/23 15:06	03/17/23 11:06	1
Diesel Range Organics (Over C10-C28)	133		49.9	mg/Kg		03/16/23 15:06	03/17/23 11:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/23 15:06	03/17/23 11:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/16/23 15:06	03/17/23 11:06	1
o-Terphenyl	110		70 - 130			03/16/23 15:06	03/17/23 11:06	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		5.00	mg/Kg			03/21/23 16:48	

Released to Imaging: 9/20/2023 8:49:23 AM

Surrogate Summary

Client: Ensolum

Project/Site: PLU Peirce Canyon 12

SDG: 3C1558192

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4297-1	SS01	108	94	
390-4297-1 MS	SS01	112	94	
890-4297-1 MSD	SS01	540 S1+	73	
890-4297-2	SS02	122	107	
890-4297-3	SS03	110	95	
_CS 880-49246/1-A	Lab Control Sample	105	92	
LCSD 880-49246/2-A	Lab Control Sample Dup	110	94	
MB 880-49246/5-A	Method Blank	101	86	
MB 880-49324/5-A	Method Blank	100	86	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4295-A-12-B MS	Matrix Spike	129	130	
890-4295-A-12-C MSD	Matrix Spike Duplicate	113	115	
890-4297-1	SS01	99	106	
890-4297-2	SS02	93	101	
890-4297-3	SS03	96	110	
890-4297-3 MS	SS03	96	101	
890-4297-3 MSD	SS03	112	114	
LCS 880-48780/2-A	Lab Control Sample	110	123	
LCS 880-48781/2-A	Lab Control Sample	121	136 S1+	
LCSD 880-48780/3-A	Lab Control Sample Dup	108	120	
LCSD 880-48781/3-A	Lab Control Sample Dup	104	120	
MB 880-48780/1-A	Method Blank	109	129	
MB 880-48781/1-A	Method Blank	108	133 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

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5

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11

13

14

Client: Ensolum Job ID: 890-4297-1 SDG: 3C1558192 Project/Site: PLU Peirce Canyon 12

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49246/5-A

Matrix: Solid Analysis Batch: 49364 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49246

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/23 16:31	03/24/23 21:53	
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/23 16:31	03/24/23 21:53	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/23 16:31	03/24/23 21:53	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/23 16:31	03/24/23 21:53	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/23 16:31	03/24/23 21:53	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/23 16:31	03/24/23 21:53	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyze	ed Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/22/23 10	6:31 03/24/23 2	1:53 1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/22/23 10	5:31 03/24/23 2	1:53 1

Lab Sample ID: LCS 880-49246/1-A

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 49364 Prep Batch: 49246

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08374		mg/Kg		84	70 - 130	
Toluene	0.100	0.08973		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.08791		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1835		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09362		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-49246/2-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49246

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08588		mg/Kg		86	70 - 130	3	35
Toluene	0.100	0.09208		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09292		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1954		mg/Kg		98	70 - 130	6	35
o-Xylene	0.100	0.09887		mg/Kg		99	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1.4-Difluorobenzene (Surr)	94		70 ₋ 130

Lab Sample ID: 890-4297-1 MS

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 49246

	-	Sample	Sample	Spike	MS	MS				%Rec	
An	alyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Be	nzene	<0.00199	U F1 F2	0.100	0.06676	F1	mg/Kg		66	70 - 130	
Tol	uene	0.00789	F1 F2	0.100	0.07659	F1	mg/Kg		68	70 - 130	

QC Sample Results

Job ID: 890-4297-1 Client: Ensolum Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

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

Lab Sample ID: 890-4297-1 MS **Matrix: Solid**

Analysis Batch: 49364

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 49246

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.00653	F1 F2	0.100	0.06807	F1	mg/Kg		61	70 - 130	
m-Xylene & p-Xylene	0.0102	F1 F2	0.201	0.1448	F1	mg/Kg		67	70 - 130	
o-Xylene	0.00601	F1 F2	0.100	0.07526	F1	mg/Kg		69	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-4297-1 MSD

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 49246

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte babbA Unit Limits 0.0990 Benzene <0.00199 U F1 F2 0.09833 F2 mg/Kg 99 70 - 130 38 35 Toluene 0.00789 F1 F2 0.0990 0.04805 F1 F2 mg/Kg 41 70 - 130 46 35 Ethylbenzene 0.00653 F1 F2 0.0990 0.1986 F1 F2 194 70 - 130 98 35 mg/Kg 0.198 0.3069 F1 F2 70 - 130 m-Xylene & p-Xylene 0.0102 F1 F2 mq/Kq 150 72 35 0.0990 0.00601 F1 F2 0.2016 F1 F2 70 - 130 o-Xylene mg/Kg 198 91

MSD MSD

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	540	S1+	70 - 130	
1,4-Difluorobenzene (Surr)	73		70 - 130	

Lab Sample ID: MB 880-49324/5-A

Matrix: Solid

Analysis Batch: 49364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49324

MB MB Result Qualifier Unit Prepared Dil Fac Analyte RL Analyzed Benzene <0.00200 U 0.00200 mg/Kg 03/23/23 12:25 03/24/23 11:01 Toluene <0.00200 U 0.00200 03/23/23 12:25 03/24/23 11:01 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/23/23 12:25 03/24/23 11:01 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/23/23 12:25 03/24/23 11:01 0.00200 03/23/23 12:25 03/24/23 11:01 o-Xylene <0.00200 U mg/Kg <0.00400 U 0.00400 03/23/23 12:25 Xylenes, Total mg/Kg 03/24/23 11:01

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/23/23 12:25	03/24/23 11:01	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/23/23 12:25	03/24/23 11:01	1

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

Lab Sample ID: MB 880-48780/1-A

Matrix: Solid

Analysis Batch: 48705

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

Prep Batch: 48780

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/16/23 14:57	03/16/23 20:06	1
(GRO)-C6-C10								

Job ID: 890-4297-1

03/16/23 14:57

03/16/23 20:06

Client: Ensolum SDG: 3C1558192 Project/Site: PLU Peirce Canyon 12

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

129

Lab Sample ID: MB 880-48780/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 48705 Prep Batch: 48780

	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		03/16/23 14:57	03/16/23 20:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/23 14:57	03/16/23 20:06	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			03/16/23 14:57	03/16/23 20:06	1

70 - 130

o-Terphenyl Lab Sample ID: LCS 880-48780/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Prep Batch: 48780 Analysis Batch: 48705 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1129 113 70 - 130 mg/Kg (GRO)-C6-C10 1000 926.8 Diesel Range Organics (Over mg/Kg 93 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 110 o-Terphenyl 123 70 - 130

Lab Sample ID: LCSD 880-48780/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 48705 Prep Batch: 48780

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1090		mg/Kg		109	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	902.1		mg/Kg		90	70 - 130	3	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	120		70 - 130

130

Lab Sample ID: 890-4295-A-12-B MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 48705	Prep Batch: 48780

7 minumy one Dattonin 101 00										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1179		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	404		998	1258		mg/Kg		86	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	129		70 - 130							

Eurofins Carlsbad

70 - 130

o-Terphenyl

Client: Ensolum Job ID: 890-4297-1 Project/Site: PLU Peirce Canyon 12

SDG: 3C1558192

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

Lab Sample ID: 890-4295-A-12-C MSD

Matrix: Solid

Analysis Batch: 48705

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 48780

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 1009 mg/Kg 96 70 - 130 16 20 (GRO)-C6-C10 999 Diesel Range Organics (Over 404 1119 mg/Kg 72 70 - 130 12

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: MB 880-48781/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 48812

мв мв

Prep Type: Total/NA

Prep Batch: 48781

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 50.0 03/16/23 15:06 03/17/23 08:28 Gasoline Range Organics <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/16/23 15:06 03/17/23 08:28 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/16/23 15:06 03/17/23 08:28

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108	70 - 130	03/16/23 15:06	03/17/23 08:28	1
o-Terphenyl	133 S1+	70 - 130	03/16/23 15:06	03/17/23 08:28	1

Lab Sample ID: LCS 880-48781/2-A

Matrix: Solid

Analysis Batch: 48812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48781

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1075 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1006 mg/Kg 101 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-48781/3-A

Matrix: Solid

Analysis Batch: 48812

Prep Type: Total/NA

Prep Batch: 48781

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	859.6	*1	mg/Kg		86	70 - 130	22	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	881.0		mg/Kg		88	70 - 130	13	20	
C10-C28)										

Job ID: 890-4297-1

Client: Ensolum Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

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

Lab Sample ID: LCSD 880-48781/3-A **Matrix: Solid**

Analysis Batch: 48812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 48781

Client Sample ID: SS03

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 120 70 - 130

Lab Sample ID: 890-4297-3 MS **Client Sample ID: SS03**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 48812 Prep Batch: 48781

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U *1 998 898.9 85 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 1034 90 133 mg/Kg 70 - 130C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 96 70 - 130 1-Chlorooctane 70 - 130

101

114

Lab Sample ID: 890-4297-3 MSD

Matrix: Solid

o-Terphenyl

o-Terphenyl

Analysis Batch: 48812

Prep Type: Total/NA Prep Batch: 48781

Sample Sample Spike MSD MSD Analyte Result Qualifier hahhA Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U *1 999 1011 mg/Kg 96 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over 133 999 1176 mg/Kg 104 70 - 130 13 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 112

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48890/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

70 - 130

Analysis Batch: 49133

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/20/23 14:19

Lab Sample ID: LCS 880-48890/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49133

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	262.6		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-48890/3-A

QC Sample Results

Client: Ensolum Job ID: 890-4297-1 Project/Site: PLU Peirce Canyon 12

Lab Sample ID: 890-4297-2 MS

SDG: 3C1558192

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 49133

Analysis Batch: 49133

Matrix: Solid

Matrix: Solid

	Бріке	LC2D	LC2D				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	257.6		mg/Kg	_	103	90 - 110	2	20	

Client Sample ID: SS02

Prep Type: Soluble

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec Chloride 44.2 248 288.4 mg/Kg 99 90 - 110

Lab Sample ID: 890-4297-2 MSD Client Sample ID: SS02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49133

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Limit Analyte Added Result Qualifier Unit Limits **RPD** Chloride 44.2 248 282.7 90 - 110 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 890-4297-1
Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

GC VOA

Prep Batch: 49246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Total/NA	Solid	5035	
890-4297-2	SS02	Total/NA	Solid	5035	
890-4297-3	SS03	Total/NA	Solid	5035	
MB 880-49246/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49246/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49246/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4297-1 MS	SS01	Total/NA	Solid	5035	
890-4297-1 MSD	SS01	Total/NA	Solid	5035	

Prep Batch: 49324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49324/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Total/NA	Solid	8021B	49246
890-4297-2	SS02	Total/NA	Solid	8021B	49246
890-4297-3	SS03	Total/NA	Solid	8021B	49246
MB 880-49246/5-A	Method Blank	Total/NA	Solid	8021B	49246
MB 880-49324/5-A	Method Blank	Total/NA	Solid	8021B	49324
LCS 880-49246/1-A	Lab Control Sample	Total/NA	Solid	8021B	49246
LCSD 880-49246/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49246
890-4297-1 MS	SS01	Total/NA	Solid	8021B	49246
890-4297-1 MSD	SS01	Total/NA	Solid	8021B	49246

Analysis Batch: 49504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Total/NA	Solid	Total BTEX	
890-4297-2	SS02	Total/NA	Solid	Total BTEX	
890-4297-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Total/NA	Solid	8015B NM	48780
890-4297-2	SS02	Total/NA	Solid	8015B NM	48780
MB 880-48780/1-A	Method Blank	Total/NA	Solid	8015B NM	48780
LCS 880-48780/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48780
LCSD 880-48780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48780
890-4295-A-12-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48780
890-4295-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48780

Prep Batch: 48780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Total/NA	Solid	8015NM Prep	
890-4297-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-48780/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48780/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4295-A-12-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

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QC Association Summary

Client: Ensolum Job ID: 890-4297-1 Project/Site: PLU Peirce Canyon 12 SDG: 3C1558192

GC Semi VOA (Continued)

Prep Batch: 48780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4295-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 48781

Lab Sample ID 890-4297-3	Client Sample ID SS03	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4297-3 MS	SS03	Total/NA	Solid	8015NM Prep	
890-4297-3 MSD	SS03	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-3	SS03	Total/NA	Solid	8015B NM	48781
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015B NM	48781
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48781
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48781
890-4297-3 MS	SS03	Total/NA	Solid	8015B NM	48781
890-4297-3 MSD	SS03	Total/NA	Solid	8015B NM	48781

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Total/NA	Solid	8015 NM	
890-4297-2	SS02	Total/NA	Solid	8015 NM	
890-4297-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Soluble	Solid	DI Leach	
890-4297-2	SS02	Soluble	Solid	DI Leach	
890-4297-3	SS03	Soluble	Solid	DI Leach	
MB 880-48890/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48890/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48890/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4297-2 MS	SS02	Soluble	Solid	DI Leach	
890-4297-2 MSD	SS02	Soluble	Solid	DI Leach	

Analysis Batch: 49133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4297-1	SS01	Soluble	Solid	300.0	48890
890-4297-2	SS02	Soluble	Solid	300.0	48890
890-4297-3	SS03	Soluble	Solid	300.0	48890
MB 880-48890/1-A	Method Blank	Soluble	Solid	300.0	48890
LCS 880-48890/2-A	Lab Control Sample	Soluble	Solid	300.0	48890
LCSD 880-48890/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48890
890-4297-2 MS	SS02	Soluble	Solid	300.0	48890
890-4297-2 MSD	SS02	Soluble	Solid	300.0	48890

Job ID: 890-4297-1 SDG: 3C1558192

Client Sample ID: SS01

Lab Sample ID: 890-4297-1

Matrix: Solid

Date Collected: 03/13/23 02:50 Date Received: 03/14/23 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49246	03/22/23 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/24/23 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49504	03/25/23 16:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48780	03/16/23 14:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/17/23 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 15:50	SMC	EET MID

Lab Sample ID: 890-4297-2

Matrix: Solid

Matrix: Solid

Date Collected: 03/13/23 02:35 Date Received: 03/14/23 08:17

Client Sample ID: SS02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49246	03/22/23 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/24/23 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49504	03/25/23 16:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48780	03/16/23 14:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48705	03/17/23 03:56	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/20/23 15:55	SMC	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4297-3

Date Collected: 03/13/23 02:40

Date Received: 03/14/23 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49246	03/22/23 16:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49364	03/24/23 22:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49504	03/25/23 16:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 11:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48890	03/18/23 15:24	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49133	03/21/23 16:48	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU Peirce Canyon 12
SDG: 3C1558192

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	vindudo analytas for
the agency does not of	· '	it the laboratory is not certific	ed by the governing admonty. This list his	ay include arialytes for
0 ,	· '	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	,	, , ,	

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Method Summary

Client: Ensolum Job ID: 890-4297-1 Project/Site: PLU Peirce Canyon 12

SDG: 3C1558192

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU Peirce Canyon 12

Job ID: 890-4297-1

SDG: 3C1558192

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-4297-1	SS01	Solid	03/13/23 02:50	03/14/23 08:17	0.5
890-4297-2	SS02	Solid	03/13/23 02:35	03/14/23 08:17	0.5
890-4297-3	SS03	Solid	03/13/23 02:40	03/14/23 08:17	0.5

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Xenco

Environment Testing

City, State ZIP:

Carlsbad, NM 88220 3122 National Parks Hwy

City, State ZIP:

Carlsbad, NM 88220

3104 E. Green St. XTO Energy

Bill to: (if different) Company Name:

Garrett Green

Company Name: Project Manager:

Ensolum Ben Belill

121314

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Mildland, TX (432) 704-5440, San Antonio, TX (210) 509-333 EL Paso, TX (915) 585-3443, Lubbock, TX (806) Hobbs, NM (575) 392-7550, Carlsbad, NM (575)

) 509-3334	Work Order No:
794-1296	
988-3199	
	www.xenco.com Page (of)
	Work Order Comments
	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
	State of Project:
	Reporting: Level II Level III PST/UST TRRP Level IV
	Deliverables: EDD

Phone: 303-88	303-887-2946		Email: (Email: Garrett. Green@ExxonMobil.com	@Ex	conMc	bil.co	3	Deliverables			
Project Name:	PLU Pierce Canyon	Iyon 12	Turn /	Turn Around					ANALYSIS REQUEST		Preservative Codes	Codes
Project Number:	03C1558192	2	Routine	Rush	Pres.						None: NO DI	DI Water: H ₂ O
Project Location:			Due Date:								Cool: Cool Me	MeOH: Me
Sampler's Name:	Connor Whitman	lan	TAT starts the	TAT starts the day received by								HNO ₃ : HN
PO#:)	the lab, if rece	the lab, if received by 4:30pm	rs	_	_				H ₂ SO ₄ : H ₂ Na	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	VYes No	Wet Ice:	Yes) No	nete	0)					H₃PO₄: HP	
Samples Received Intact:		Thermometer ID:		Com son	ıran	300.					NaHSO4: NABIS	
-	O (N/A)	Correction Factor:		(O)	Pa	PA: 3					Na ₂ S ₂ O ₃ : NaSO ₃	
9:	NO NIA	Temperature Reading:	eading:	1	_	(EF)	890-4297 Chain of Custody	ody	Zn Acetate+NaOH: Zn	5
		Corrected Temperature:	perature:	0 0	_	IDES	15)	3021		-	NaOH+Ascorbic Acid: SAPC	SAPC
Sample Identification	on Matrix	Date Sampled	Time Sampled	Depth Comp	# of	CHLOR	TPH (80	BTEX (Sample Comments	ments
SS01	S	3/13/2023	2:50	.5' Grab/	/ 1	×	×	×			Incident ID:	
SS02	S	3/13/2023	2:35	.5' Grab/	1	×	×	×			nAPP2306152871	52871
SS03	S	3/13/2023	2:40	.5' Grab/	_	×	×	×			Cost Center:	
											1081051001	01
											AFE:	
					#	11	\parallel					
Total 200.7 / 6010	200.8 / 6020:	8RC	8RCRA 13PPM	1 Texas 11	<u>≥</u>	Sb As	B	Be B Cd	Ca Cr Co Cu Fe	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na	Na Sr Tl Sn U V Zn	Zn
Circle Method(s) and Metal(s) to be analyzed	al(s) to be analyz	ed	TCLP / SPI	P 6010: 8R	CRA	Sb /	s Ba	Be C	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this document of service. Eurofins Xenco will be	t and relinquishment of liable only for the cost	samples constitues of samples and s	ites a valid purch	nase order from o any responsibilit	lient co	mpany t losses	o Eurof or expe	ins Xenco	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$8.5 00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	standard terms and conditions cumstances beyond the control orced unless previously negotiate	đ.	
Relinquished by: (Signature)	ature)	Received	Received by: (Signature)	re)		Date	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	ure)	Date/Time
the		The Contraction	0		W	14.	5	3-14-23 81-				
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5								6				

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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4297-1

 SDG Number: 3C1558192

Login Number: 4297 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.	True	
Sample bottles are completely filled.	N/A	CHECK NCM
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4297-1 SDG Number: 3C1558192

Login Number: 4297 **List Source: Eurofins Midland** List Number: 2 List Creation: 03/15/23 11:19 AM

Creator: Rodriguez, Leticia

<6mm (1/4").

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 4/11/2023 9:58:45 AM

JOB DESCRIPTION

PLU Pierce Canyon 12 Battery SDG NUMBER 03C1558192

JOB NUMBER

890-4451-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Released to Imaging: 9/20/2023 8:49:23 AM

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 4/11/2023 9:58:45 AM

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

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

Project/Site: PLU Pierce Canyon 12 Battery

Client: Ensolum

Laboratory Job ID: 890-4451-1 SDG: 03C1558192

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Definitions/Glossary

Job ID: 890-4451-1 Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Qualifiers

GC VOA

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

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

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

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

Contains No Free Liquid **CNF** DER Duplicate Error Ratio (normalized absolute difference) Dil Fac Dilution Factor

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) Limit of Quantitation (DoD/DOE) LOQ

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 MOI Method Quantitation Limit

NC Not Calculated

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

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

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: PLU Pierce Canyon 12 Battery

Job ID: 890-4451-1

SDG: 03C1558192

Job ID: 890-4451-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4451-1

Receipt

The samples were received on 3/30/2023 4:58 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 2.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01A (890-4451-2) and SS01A (890-4451-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-50529 and analytical batch 880-50770 was outside control limits. Sample non-homogeneity is suspected.

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 880-50230 and analytical batch 880-50110 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4450-A-3-B MS). 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: SS03A (890-4451-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-50296 and analytical batch 880-50277 was outside the upper control limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50480 and analytical batch 880-50736 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.BH01 (890-4451-1), BH01A (890-4451-2), SS01A (890-4451-3), SS02A (890-4451-4), (890-4450-A-5-C), (890-4450-A-5-D) MS) and (890-4450-A-5-E MSD)

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

Job ID: 890-4451-1

Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: BH01 Lab Sample ID: 890-4451-1

Date Collected: 03/30/23 09:55 Matrix: Solid Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/06/23 15:17	04/10/23 13:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/06/23 15:17	04/10/23 13:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/06/23 15:17	04/10/23 13:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/06/23 15:17	04/10/23 13:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/06/23 15:17	04/10/23 13:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/06/23 15:17	04/10/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			04/06/23 15:17	04/10/23 13:02	1
1,4-Difluorobenzene (Surr)	112		70 - 130			04/06/23 15:17	04/10/23 13:02	1
- Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/10/23 17:54	1
Method: SW846 8015 NM - Diese	•		GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/23 10:02	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	DI.					
		Qualifici	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9	Unit mg/Kg	<u>D</u>	Prepared 04/03/23 15:37	Analyzed 04/04/23 00:26	
(GRO)-C6-C10 Diesel Range Organics (Over		U			<u>D</u>	<u>.</u>		1
(GRO)-C6-C10	<49.9	U	49.9	mg/Kg	<u>D</u>	04/03/23 15:37	04/04/23 00:26	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 <49.9	U U	49.9	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37	04/04/23 00:26 04/04/23 00:26	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37	04/04/23 00:26 04/04/23 00:26 04/04/23 00:26	1 1 1 <i>Dil Fac</i>
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared	04/04/23 00:26 04/04/23 00:26 04/04/23 00:26 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 %Recovery 99 114	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	04/04/23 00:26 04/04/23 00:26 04/04/23 00:26 Analyzed 04/04/23 00:26	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 **Recovery 99 114 Chromatograp	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	04/04/23 00:26 04/04/23 00:26 04/04/23 00:26 Analyzed 04/04/23 00:26	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH01A Lab Sample ID: 890-4451-2

Date Collected: 03/30/23 10:00 Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:23	-
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:23	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:23	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 13:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 13:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130			04/06/23 15:17	04/10/23 13:23	1
1.4-Difluorobenzene (Surr)	93		70 - 130			04/06/23 15:17	04/10/23 13:23	1

Eurofins Carlsbad

Matrix: Solid

Project/Site: PLU Pierce Canyon 12 Battery

Client: Ensolum

Result Qualifier

98.7

Job ID: 890-4451-1

SDG: 03C1558192

Client Sample ID: BH01A

Date Collected: 03/30/23 10:00 Date Received: 03/30/23 16:58 Lab Sample ID: 890-4451-2

Analyzed

04/08/23 15:20

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/10/23 17:54	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/23 10:02	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/04/23 00:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/04/23 00:47	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/04/23 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			04/03/23 15:37	04/04/23 00:47	1
o-Terphenyl	113		70 - 130			04/03/23 15:37	04/04/23 00:47	1

5.04 Client Sample ID: SS01A Lab Sample ID: 890-4451-3

RL

Unit

mg/Kg

D

Prepared

Date Collected: 03/30/23 11:40

Analyte

Chloride

Date Received: 03/30/23 16:58

Released to Imaging: 9/20/2023 8:49:23 AM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 13:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 13:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	46	S1-	70 - 130			04/06/23 15:17	04/10/23 13:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/06/23 15:17	04/10/23 13:43	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/10/23 17:54	1

Method: SW846 8015 NM - Diesel F	Range Organic	cs (DRO) (G	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/04/23 10:02	1

Method: SW846 8015B NM - Diese	Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/03/23 15:37	04/04/23 01:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/03/23 15:37	04/04/23 01:29	1

Eurofins Carlsbad

Dil Fac

Matrix: Solid

Job ID: 890-4451-1

Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

Client Sample ID: SS01A

Lab Sample ID: 890-4451-3

Matrix: Solid

Date Collected: 03/30/23 11:40 Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/03/23 15:37	04/04/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			04/03/23 15:37	04/04/23 01:29	1
o-Terphenyl	110		70 - 130			04/03/23 15:37	04/04/23 01:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 52.4 4.99 04/08/23 15:25 mg/Kg

Client Sample ID: SS02A Lab Sample ID: 890-4451-4

Date Received: 03/30/23 16:58

Date Collected: 03/30/23 11:45 **Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:04	
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:04	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:04	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/06/23 15:17	04/10/23 14:04	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:04	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/06/23 15:17	04/10/23 14:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130			04/06/23 15:17	04/10/23 14:04	
1,4-Difluorobenzene (Surr)	101		70 - 130			04/06/23 15:17	04/10/23 14:04	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/10/23 17:54	
Method: SW846 8015 NM - Diese			•	Unit	n	Propared	Analyzod	Dil Es
Analyte	Result	ics (DRO) (G	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/04/23 10:02	
Analyte	Result 76.1	Qualifier	49.8		<u> </u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result 76.1 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 76.1 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8	mg/Kg			04/04/23 10:02	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 76.1 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg		Prepared	04/04/23 10:02 Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 76.1 sel Range Orga Result <49.8	Qualifier nics (DRO) Qualifier U	RL 49.8	mg/Kg Unit mg/Kg		Prepared 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 01:50	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 76.1	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 01:50 04/04/23 01:50	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 76.1	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 01:50 04/04/23 01:50	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 76.1	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared	04/04/23 10:02 Analyzed 04/04/23 01:50 04/04/23 01:50 04/04/23 01:50 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 01:50 04/04/23 01:50 Analyzed 04/04/23 01:50	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 01:50 04/04/23 01:50 Analyzed 04/04/23 01:50	Dil Fa

Job ID: 890-4451-1

Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: SS03A Lab Sample ID: 890-4451-5

Date Collected: 03/30/23 11:50 Matrix: Solid Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/06/23 15:17	04/10/23 14:25	
Toluene	0.00630		0.00198	mg/Kg		04/06/23 15:17	04/10/23 14:25	1
Ethylbenzene	0.00381		0.00198	mg/Kg		04/06/23 15:17	04/10/23 14:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/06/23 15:17	04/10/23 14:25	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/06/23 15:17	04/10/23 14:25	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/06/23 15:17	04/10/23 14:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			04/06/23 15:17	04/10/23 14:25	1
1,4-Difluorobenzene (Surr)	130		70 - 130			04/06/23 15:17	04/10/23 14:25	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0101		0.00396	mg/Kg			04/10/23 17:54	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/23 10:02	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 02:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 02:11	1
C10-C28)	-40.0		40.0			04/02/02 45:27	04/04/02 00:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 02:11	·
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			04/03/23 15:37	04/04/23 02:11	1
o-Terphenyl	133	S1+	70 - 130			04/03/23 15:37	04/04/23 02:11	•
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-4451-6

Matrix: Solid Date Collected: 03/30/23 12:10 Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/23 15:17	04/10/23 14:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 14:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/23 15:17	04/10/23 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			04/06/23 15:17	04/10/23 14:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130			04/06/23 15:17	04/10/23 14:45	1

Client Sample Results

Client: Ensolum Job ID: 890-4451-1
Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: SS04 Lab Sample ID: 890-4451-6

Date Collected: 03/30/23 12:10

Date Received: 03/30/23 16:58

Matrix: Solid

Analyte	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
						Frepareu		DII Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/10/23 17:54	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/04/23 10:02	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		04/03/23 15:37	04/04/23 02:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		04/03/23 15:37	04/04/23 02:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/03/23 15:37	04/04/23 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			04/03/23 15:37	04/04/23 02:32	1
o-Terphenyl	107		70 - 130			04/03/23 15:37	04/04/23 02:32	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	hv - Solubl	0					
Analyte	• .	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyto	ixesuit	Quanner	IXE.	Oilit		i i cpareu	Analyzeu	Dil I ac

Client Sample ID: SS05 Lab Sample ID: 890-4451-7

Date Collected: 03/30/23 12:15

Date Received: 03/30/23 16:58

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 15:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 15:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 15:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 15:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 15:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			04/06/23 15:17	04/10/23 15:06	1
			70 100			04/00/00 45:47	04/10/23 15:06	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 ₋ 130 R L	Unit	D	04/06/23 15:17 Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald			Unit	D			
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398	mg/Kg		Prepared	Analyzed 04/10/23 17:54	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9	mg/Kg		Prepared	Analyzed 04/10/23 17:54 Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9	mg/Kg		Prepared	Analyzed 04/10/23 17:54 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/10/23 17:54 Analyzed 04/04/23 10:02	Dil Fac

Job ID: 890-4451-1

Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: SS05 Lab Sample ID: 890-4451-7

Date Collected: 03/30/23 12:15 Matrix: Solid Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			04/03/23 15:37	04/04/23 02:54	1
o-Terphenyl	109		70 - 130			04/03/23 15:37	04/04/23 02:54	1

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145	4.97	mg/Kg			04/08/23 12:02	1

Client Sample ID: SS06 Lab Sample ID: 890-4451-8 Date Collected: 03/30/23 12:20 Matrix: Solid

Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 15:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 15:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 15:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/06/23 15:17	04/10/23 15:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 15:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/06/23 15:17	04/10/23 15:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			04/06/23 15:17	04/10/23 15:27	1
1,4-Difluorobenzene (Surr)	110		70 - 130			04/06/23 15:17	04/10/23 15:27	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/10/23 17:54	1
Analyte Total TPH	Result <50.0	Qualifier U		Unit mg/Kg	D	Prepared	Analyzed 04/04/23 10:02	Dil Fac
Total TPH -	<50.0	U	50.0	mg/Kg			04/04/23 10:02	1
								'
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					'
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	` '	Unit mg/Kg	<u>D</u>	Prepared 04/03/23 15:37		·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	·	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	RL 50.0	mg/Kg	<u>D</u>	04/03/23 15:37	Analyzed 04/04/23 03:16	Dil Fac
	Result <50.0 <50.0	Qualifier U U U	RL 50.0	mg/Kg	<u> </u>	04/03/23 15:37 04/03/23 15:37	Analyzed 04/04/23 03:16 04/04/23 03:16	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<pre></pre>	Qualifier U U U	FL 50.0 50.0 50.0	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37	Analyzed 04/04/23 03:16 04/04/23 03:16 04/04/23 03:16	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared	Analyzed 04/04/23 03:16 04/04/23 03:16 04/04/23 03:16 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	FL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	Analyzed 04/04/23 03:16 04/04/23 03:16 04/04/23 03:16 Analyzed 04/04/23 03:16	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	FL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	Analyzed 04/04/23 03:16 04/04/23 03:16 04/04/23 03:16 Analyzed 04/04/23 03:16	Dil Fac

Client Sample Results

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: FS01

Date Collected: 03/30/23 14:20 Date Received: 03/30/23 16:58

Lab Sample ID: 890-4451-9

Matrix: Solid

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 16:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 16:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 16:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/23 15:17	04/10/23 16:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 16:51	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/23 15:17	04/10/23 16:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			04/06/23 15:17	04/10/23 16:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/06/23 15:17	04/10/23 16:51	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/11/23 10:26	1
			•					
		ics (DRO) (G	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	•		<u>D</u>	Prepared	Analyzed 04/04/23 10:02	
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0	Unit	<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0	Unit	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	Unit mg/Kg			04/04/23 10:02	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 50.0 (GC)	Unit mg/Kg		Prepared	04/04/23 10:02 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	Unit mg/Kg		Prepared	04/04/23 10:02 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 03:37 04/04/23 03:37	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 03:37	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared	04/04/23 10:02 Analyzed 04/04/23 03:37 04/04/23 03:37 04/04/23 03:37 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 03:37 04/04/23 03:37	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared	04/04/23 10:02 Analyzed 04/04/23 03:37 04/04/23 03:37 04/04/23 03:37 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 03:37 04/04/23 03:37 Analyzed 04/04/23 03:37	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/03/23 15:37 04/03/23 15:37 04/03/23 15:37 Prepared 04/03/23 15:37	04/04/23 10:02 Analyzed 04/04/23 03:37 04/04/23 03:37 Analyzed 04/04/23 03:37	1 1 1 Dil Fac 1

Client Sample ID: FS02 Lab Sample ID: 890-4451-10

Date Collected: 03/30/23 14:25 Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 17:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 17:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 17:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 17:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/06/23 15:17	04/10/23 17:12	1
1,4-Difluorobenzene (Surr)	115		70 - 130			04/06/23 15:17	04/10/23 17:12	1

Eurofins Carlsbad

Matrix: Solid

Project/Site: PLU Pierce Canyon 12 Battery

Client: Ensolum

Job ID: 890-4451-1

SDG: 03C1558192

Client Sample ID: FS02

Date Collected: 03/30/23 14:25 Date Received: 03/30/23 16:58 Lab Sample ID: 890-4451-10

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/11/23 10:26	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/04/23 10:02	1
Mothod: SW046 9045D NM Dior	nel Benge Orge	nice (DBO)	(CC)					
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 03:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 03:58	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			04/03/23 15:37	04/04/23 03:58	1
o-Terphenyl	112		70 - 130			04/03/23 15:37	04/04/23 03:58	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e					
Analyte	• .	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	_							

Client Sample ID: FS03

Date Collected: 03/30/23 14:30

Date Received: 03/30/23 16:58

Lab	Sample	ID:	890-4451-11	
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Ma	atrix	: So	lid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 17:32	
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 17:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 17:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/06/23 15:17	04/10/23 17:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 17:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/06/23 15:17	04/10/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/06/23 15:17	04/10/23 17:32	1
	111		70 - 130			04/06/23 15:17	04/10/23 17:32	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	RL	Unit	D	Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald							·
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00399	Qualifier U	RL 0.00399		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U	RL 0.00399		<u>D</u>		Analyzed	•
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399	mg/Kg		Prepared	Analyzed 04/11/23 10:26	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.9	mg/Kg		Prepared	Analyzed 04/11/23 10:26 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.9	mg/Kg		Prepared	Analyzed 04/11/23 10:26 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00399 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/11/23 10:26 Analyzed 04/04/23 10:02	Dil Fac

Project/Site: PLU Pierce Canyon 12 Battery

Client: Ensolum Job ID: 890-4451-1 SDG: 03C1558192

Lab Sample ID: 890-4451-11

Client Sample ID: FS03

Date Received: 03/30/23 16:58

Date Collected: 03/30/23 14:30

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/23 15:37	04/04/23 04:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			04/03/23 15:37	04/04/23 04:19	1
o-Terphenyl	108		70 - 130			04/03/23 15:37	04/04/23 04:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Chloride 5.04 04/08/23 12:31 65.7 mg/Kg

Client Sample ID: FS04 Lab Sample ID: 890-4451-12 Date Collected: 03/30/23 14:35

Matrix: Solid

Date Received: 03/30/23 16:58

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/06/23 15:17	04/10/23 17:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/06/23 15:17	04/10/23 17:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/06/23 15:17	04/10/23 17:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/06/23 15:17	04/10/23 17:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/06/23 15:17	04/10/23 17:53	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/06/23 15:17	04/10/23 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			04/06/23 15:17	04/10/23 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/06/23 15:17	04/10/23 17:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/06/23 15:17	04/10/23 17:53	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/11/23 10:26	1

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/04/23 10:02	1

_				3, 3				
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/04/23 04:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/04/23 04:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/04/23 04:40	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	113	_	70 - 130			04/03/23 15:37	04/04/23 04:40	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		4.99	mg/Kg			04/08/23 12:35	1

70 - 130

123

Eurofins Carlsbad

04/04/23 04:40

04/03/23 15:37

o-Terphenyl

Client Sample Results

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: FS05 Lab Sample ID: 890-4451-13

Date Collected: 03/30/23 14:55 Matrix: Solid

Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 18:14	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 18:14	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 18:14	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/06/23 15:17	04/10/23 18:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/06/23 15:17	04/10/23 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/06/23 15:17	04/10/23 18:14	1
1,4-Difluorobenzene (Surr)	104		70 - 130			04/06/23 15:17	04/10/23 18:14	1
- Method: TAL SOP Total BTEX - 1	Γotal BTEX Calα	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/11/23 10:26	1
Analyte Total TDU		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result		RL 49.9	<u>Unit</u> mg/Kg	D	Prepared	Analyzed 04/05/23 09:23	Dil Fac
- -				5 5				
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/04/23 09:34	04/04/23 12:19	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/04/23 09:34	04/04/23 12:19	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9		49.9	mg/Kg		04/04/23 09:34	04/04/23 12:19	1
Oil Range Organics (Over C26-C30)	\49.9	U	49.9	ilig/Kg		04/04/23 09.34	04/04/23 12.19	
		O 1:6:	Limits			Prepared	Analyzed	
Surrogate	%Recovery	Qualifier					•	Dil Fac
Surrogate 1-Chlorooctane	%Recovery 104	Quaimer	70 - 130			04/04/23 09:34	04/04/23 12:19	
		Quaimer				04/04/23 09:34 04/04/23 09:34		1
1-Chlorooctane	104	·	70 - 130 70 - 130				04/04/23 12:19	1
1-Chlorooctane o-Terphenyl	104 90 Chromatograp	·	70 - 130 70 - 130	Unit	D		04/04/23 12:19	Dil Fac

Client Sample ID: FS06 Lab Sample ID: 890-4451-14 **Matrix: Solid**

Date Collected: 03/30/23 15:00 Date Received: 03/30/23 16:58

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 18:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 18:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 18:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/23 15:17	04/10/23 18:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 18:34	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/23 15:17	04/10/23 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			04/06/23 15:17	04/10/23 18:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/06/23 15:17	04/10/23 18:34	1

Client Sample Results

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: FS06

Lab Sample ID: 890-4451-14 Date Collected: 03/30/23 15:00

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401		0.00401	mg/Kg		Troparou	04/11/23 10:26	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/05/23 09:23	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/04/23 09:34	04/04/23 12:41	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/04/23 09:34	04/04/23 12:41	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/04/23 09:34	04/04/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			04/04/23 09:34	04/04/23 12:41	
o-Terphenyl	77		70 - 130			04/04/23 09:34	04/04/23 12:41	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.4		5.00	mg/Kg			04/08/23 12:45	

Surrogate Summary

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4439-A-13-C MS	Matrix Spike	103	101	
90-4439-A-13-D MSD	Matrix Spike Duplicate	109	98	
90-4451-1	BH01	113	112	
90-4451-2	BH01A	58 S1-	93	
90-4451-3	SS01A	46 S1-	100	
90-4451-4	SS02A	105	101	
90-4451-5	SS03A	104	130	
90-4451-6	SS04	102	104	
90-4451-7	SS05	107	109	
90-4451-8	SS06	107	110	
90-4451-9	FS01	100	100	
90-4451-10	FS02	108	115	
90-4451-11	FS03	109	111	
90-4451-12	FS04	114	101	
90-4451-13	FS05	116	104	
90-4451-14	FS06	117	108	
.CS 880-50529/1-A	Lab Control Sample	104	101	
CSD 880-50529/2-A	Lab Control Sample Dup	108	100	
/IB 880-50529/5-A	Method Blank	100	90	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Re
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26738-A-1-E MS	Matrix Spike	111	75	
880-26738-A-1-F MSD	Matrix Spike Duplicate	112	75	
890-4450-A-3-B MS	Matrix Spike	135 S1+	137 S1+	
890-4450-A-3-C MSD	Matrix Spike Duplicate	117	117	
890-4451-1	BH01	99	114	
890-4451-2	BH01A	101	113	
890-4451-3	SS01A	102	110	
890-4451-4	SS02A	100	109	
890-4451-5	SS03A	118	133 S1+	
890-4451-6	SS04	99	107	
890-4451-7	SS05	99	109	
890-4451-8	SS06	101	111	
890-4451-9	FS01	97	105	
890-4451-10	FS02	102	112	
890-4451-11	FS03	97	108	
890-4451-12	FS04	113	123	
890-4451-13	FS05	104	90	
890-4451-14	FS06	100	77	
LCS 880-50230/2-A	Lab Control Sample	109	116	
LCS 880-50296/2-A	Lab Control Sample	126	96	

Surrogate Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-50230/3-A	Lab Control Sample Dup	104	115	
LCSD 880-50296/3-A	Lab Control Sample Dup	104	80	
MB 880-50230/1-A	Method Blank	130	146 S1+	
MB 880-50296/1-A	Method Blank	143 S1+	118	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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12

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14

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50529/5-A

Lab Sample ID: LCS 880-50529/1-A

Matrix: Solid Analysis Batch: 50770

MD MD

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50529

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 11:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 11:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 11:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/23 15:17	04/10/23 11:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/23 15:17	04/10/23 11:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/23 15:17	04/10/23 11:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/06/23 15:1	7 04/10/23 11:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/06/23 15:1	7 04/10/23 11:58	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50529

Matrix: Solid Analysis Batch: 50770 LCS LCS Spike Added Result Qualifier Unit %Rec Limits

Analyte Benzene 0.100 0.1078 mg/Kg 108 70 - 130 Toluene 0.100 0.1119 mg/Kg 112 70 - 130 0.100 Ethylbenzene 0.1137 mg/Kg 114 70 - 130 0.200 0.2304 70 - 130 m-Xylene & p-Xylene mg/Kg 115 0.100 0.1011 101 70 - 130 o-Xylene mg/Kg

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 50770

Lab Sample ID: LCSD 880-50529/2-A

Prep Type: Total/NA Prep Batch: 50529

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09796		mg/Kg		98	70 - 130	10	35	
Toluene	0.100	0.1046		mg/Kg		105	70 - 130	7	35	
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.2235		mg/Kg		112	70 - 130	3	35	
o-Xylene	0.100	0.09895		mg/Kg		99	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-4439-A-13-C MS

Matrix: Solid

Analysis Batch: 50770

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

Prep Batch: 50529

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F2 F1	0.0998	0.07358		mg/Kg		74	70 - 130	
Toluene	<0.00198	U F2 F1	0.0998	0.07699		mg/Kg		77	70 - 130	

Prep Batch: 50529

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50230

QC Sample Results

Job ID: 890-4451-1 Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

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

Lab Sample ID: 890-4439-A-13-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 50770

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00198 U F2 F1 0.0998 0.07785 78 70 - 130 mg/Kg U F2 F1 m-Xylene & p-Xylene < 0.00396 0.200 0.1579 mg/Kg 79 70 - 130 0.07072 <0.00198 U F2 F1 0.0998 71 70 - 130 o-Xylene mg/Kg

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 70 - 130 101

Lab Sample ID: 890-4439-A-13-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 50770

Prep Batch: 50529 Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00198 U F2 F1 0.101 0.09784 mg/Kg 97 70 - 130 28 35 Toluene <0.00198 U F2 F1 0.101 0.1050 mg/Kg 104 70 - 130 31 35 Ethylbenzene <0.00198 U F2 F1 0.101 0.1113 110 70 - 130 35 35 mg/Kg m-Xylene & p-Xylene <0.00396 U F2 F1 0.202 0.2273 F2 mg/Kg 113 70 - 130 36 35 <0.00198 U F2 F1 0.101 0.09926 70 - 130 o-Xylene mg/Kg 98 34

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 98 70 - 130

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

Lab Sample ID: MB 880-50230/1-A

Matrix: Solid

Analysis Batch: 50110

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/03/23 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/03/23 19:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/23 15:37	04/03/23 19:42	1

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 1-Chlorooctane 130 70 - 130 04/03/23 15:37 04/03/23 19:42 146 S1+ 70 - 130 04/03/23 15:37 04/03/23 19:42 o-Terphenyl

Lab Sample ID: LCS 880-50230/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 50110							Prep B	atch: 50230
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	977.0		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	879.9		mg/Kg		88	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Job ID: 890-4451-1 Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

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

Lab Sample ID: LCS 880-50230/2-A

Matrix: Solid

Analysis Batch: 50110

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

Prep Batch: 50230

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 109 70 - 130 o-Terphenyl 116 70 - 130

Lab Sample ID: LCSD 880-50230/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 50110

Prep Type: Total/NA

Prep Batch: 50230

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 810.2 81 70 - 13019 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 86 857.8 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 104 115 70 - 130 o-Terphenyl

Lab Sample ID: 890-4450-A-3-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 50110

Prep Type: Total/NA

Prep Batch: 50230

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U 998 1170 mg/Kg 115 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 153 998 1209 mg/Kg 106 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits S1+ 70 - 130 1-Chlorooctane 135 137 S1+ o-Terphenyl 70 - 130

Lab Sample ID: 890-4450-A-3-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 50110

Prep Type: Total/NA

Prep Batch: 50230

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 999 994.8 97 Gasoline Range Organics mg/Kg 70 - 130 16 20 (GRO)-C6-C10 Diesel Range Organics (Over 153 999 1051 mg/Kg 90 70 - 130 14 20 C10-C28)

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

QC Sample Results

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

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

Lab Sample ID: MB 880-50296/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 50277 Prep Batch: 50296

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/04/23 07:34	04/04/23 07:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/04/23 07:34	04/04/23 07:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/04/23 07:34	04/04/23 07:57	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130			04/04/23 07:34	04/04/23 07:57	1
o-Terphenyl	118		70 - 130			04/04/23 07:34	04/04/23 07:57	1

Lab Sample ID: LCS 880-50296/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 50277 Prep Batch: 50296

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 70 - 130 Gasoline Range Organics 1000 836.1 84 mg/Kg (GRO)-C6-C10

1000 Diesel Range Organics (Over 919.8 mg/Kg 92 70 - 130C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 126 70 - 130 o-Terphenyl 96 70 - 130

Lab Sample ID: LCSD 880-50296/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 50277** Prep Batch: 50296

Spike LCSD LCSD RPD %Rec Limit Analyte Added Result Qualifier %Rec RPD Unit D Limits Gasoline Range Organics 1000 933.6 mg/Kg 93 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 965.5 mg/Kg 97 70 - 130 5 20

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 104 70 - 130 o-Terphenyl 80

Lab Sample ID: 880-26738-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Prep Batch: 50296 **Analysis Batch: 50277**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1130		mg/Kg		109	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	926.0		mg/Kg		93	70 - 130	
C10-C28)										

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C10-C28)

Prep Batch: 50296

Prep Type: Total/NA

Job ID: 890-4451-1 Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

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

Lab Sample ID: 880-26738-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 50277

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 111 70 - 130 o-Terphenyl 75 70 - 130

Lab Sample ID: 880-26738-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 50277									Prep	Batch:	50296
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1201		mg/Kg		116	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	932.3		mg/Kg		93	70 - 130	1	20

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 112 75 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50482/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50729

мв мв Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/08/23 11:28

Lab Sample ID: LCS 880-50482/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50729

	Spike	LCS LCS				%Rec	
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits	
Chloride	250	250.7	mg/Kg		100	90 - 110	

Lab Sample ID: LCSD 880-50482/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 50729

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 251.7 101 90 - 110 mg/Kg

Lab Sample ID: 890-4451-5 MS Client Sample ID: SS03A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50729

Released to Imaging: 9/20/2023 8:49:23 AM

alyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

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Prep Type: Soluble

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4451-5 MSD **Matrix: Solid**

Client Sample ID: SS03A **Prep Type: Soluble**

Analysis Batch: 50729

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 69.3 253 309.2 mg/Kg 95 90 - 110 20

Client Sample ID: Method Blank

Lab Sample ID: MB 880-50480/1-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50736

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/08/23 12:49

Lab Sample ID: LCS 880-50480/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50736

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 238.4 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-50480/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50736

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier %Rec RPD Limit Unit D Limits 238.3 Chloride 250 90 - 110 20 mg/Kg

Lab Sample ID: 890-4450-A-5-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50736

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 592 F1 249 730.0 F1 Chloride mg/Kg 55 90 - 110

Lab Sample ID: 890-4450-A-5-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50736

Sample Sample Spike MSD MSD %Rec **RPD** Added Result Qualifier Qualifier RPD Limit Analyte Result Unit D %Rec Limits Chloride 592 F1 249 733.4 F1 mg/Kg 57 90 - 110 20

Client: Ensolum
Project/Site: PLU Pierce Canyon 12 Battery
SDG: 03C1558192

GC VOA

Prep Batch: 50529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4451-1	BH01	Total/NA	Solid	5035	
890-4451-2	BH01A	Total/NA	Solid	5035	
890-4451-3	SS01A	Total/NA	Solid	5035	
890-4451-4	SS02A	Total/NA	Solid	5035	
890-4451-5	SS03A	Total/NA	Solid	5035	
890-4451-6	SS04	Total/NA	Solid	5035	
890-4451-7	SS05	Total/NA	Solid	5035	
890-4451-8	SS06	Total/NA	Solid	5035	
890-4451-9	FS01	Total/NA	Solid	5035	
890-4451-10	FS02	Total/NA	Solid	5035	
890-4451-11	FS03	Total/NA	Solid	5035	
890-4451-12	FS04	Total/NA	Solid	5035	
890-4451-13	FS05	Total/NA	Solid	5035	
890-4451-14	FS06	Total/NA	Solid	5035	
MB 880-50529/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50529/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50529/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4439-A-13-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4439-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-1	BH01	Total/NA	Solid	8021B	50529
890-4451-2	BH01A	Total/NA	Solid	8021B	50529
890-4451-3	SS01A	Total/NA	Solid	8021B	50529
890-4451-4	SS02A	Total/NA	Solid	8021B	50529
890-4451-5	SS03A	Total/NA	Solid	8021B	50529
890-4451-6	SS04	Total/NA	Solid	8021B	50529
890-4451-7	SS05	Total/NA	Solid	8021B	50529
890-4451-8	SS06	Total/NA	Solid	8021B	50529
890-4451-9	FS01	Total/NA	Solid	8021B	50529
890-4451-10	FS02	Total/NA	Solid	8021B	50529
890-4451-11	FS03	Total/NA	Solid	8021B	50529
890-4451-12	FS04	Total/NA	Solid	8021B	50529
890-4451-13	FS05	Total/NA	Solid	8021B	50529
890-4451-14	FS06	Total/NA	Solid	8021B	50529
MB 880-50529/5-A	Method Blank	Total/NA	Solid	8021B	50529
LCS 880-50529/1-A	Lab Control Sample	Total/NA	Solid	8021B	50529
LCSD 880-50529/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50529
890-4439-A-13-C MS	Matrix Spike	Total/NA	Solid	8021B	50529
890-4439-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50529

Analysis Batch: 50857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-1	BH01	Total/NA	Solid	Total BTEX	
890-4451-2	BH01A	Total/NA	Solid	Total BTEX	
890-4451-3	SS01A	Total/NA	Solid	Total BTEX	
890-4451-4	SS02A	Total/NA	Solid	Total BTEX	
890-4451-5	SS03A	Total/NA	Solid	Total BTEX	
890-4451-6	SS04	Total/NA	Solid	Total BTEX	
890-4451-7	SS05	Total/NA	Solid	Total BTEX	

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Client: Ensolum Job ID: 890-4451-1
Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

GC VOA (Continued)

Analysis Batch: 50857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-8	SS06	Total/NA	Solid	Total BTEX	
890-4451-9	FS01	Total/NA	Solid	Total BTEX	
890-4451-10	FS02	Total/NA	Solid	Total BTEX	
890-4451-11	FS03	Total/NA	Solid	Total BTEX	
890-4451-12	FS04	Total/NA	Solid	Total BTEX	
890-4451-13	FS05	Total/NA	Solid	Total BTEX	
890-4451-14	FS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 50110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-1	BH01	Total/NA	Solid	8015B NM	50230
890-4451-2	BH01A	Total/NA	Solid	8015B NM	50230
890-4451-3	SS01A	Total/NA	Solid	8015B NM	50230
890-4451-4	SS02A	Total/NA	Solid	8015B NM	50230
890-4451-5	SS03A	Total/NA	Solid	8015B NM	50230
890-4451-6	SS04	Total/NA	Solid	8015B NM	50230
890-4451-7	SS05	Total/NA	Solid	8015B NM	50230
890-4451-8	SS06	Total/NA	Solid	8015B NM	50230
890-4451-9	FS01	Total/NA	Solid	8015B NM	50230
890-4451-10	FS02	Total/NA	Solid	8015B NM	50230
890-4451-11	FS03	Total/NA	Solid	8015B NM	50230
890-4451-12	FS04	Total/NA	Solid	8015B NM	50230
MB 880-50230/1-A	Method Blank	Total/NA	Solid	8015B NM	50230
LCS 880-50230/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50230
LCSD 880-50230/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50230
890-4450-A-3-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50230
890-4450-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50230

Prep Batch: 50230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4451-1	BH01	Total/NA	Solid	8015NM Prep	
890-4451-2	BH01A	Total/NA	Solid	8015NM Prep	
890-4451-3	SS01A	Total/NA	Solid	8015NM Prep	
890-4451-4	SS02A	Total/NA	Solid	8015NM Prep	
890-4451-5	SS03A	Total/NA	Solid	8015NM Prep	
890-4451-6	SS04	Total/NA	Solid	8015NM Prep	
890-4451-7	SS05	Total/NA	Solid	8015NM Prep	
890-4451-8	SS06	Total/NA	Solid	8015NM Prep	
890-4451-9	FS01	Total/NA	Solid	8015NM Prep	
890-4451-10	FS02	Total/NA	Solid	8015NM Prep	
890-4451-11	FS03	Total/NA	Solid	8015NM Prep	
890-4451-12	FS04	Total/NA	Solid	8015NM Prep	
MB 880-50230/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50230/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50230/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4450-A-3-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4450-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Client: Ensolum
Project/Site: PLU Pierce Canyon 12 Battery
SDG: 03C1558192

GC Semi VOA

Analysis Batch: 50277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-13	FS05	Total/NA	Solid	8015B NM	50296
890-4451-14	FS06	Total/NA	Solid	8015B NM	50296
MB 880-50296/1-A	Method Blank	Total/NA	Solid	8015B NM	50296
LCS 880-50296/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50296
LCSD 880-50296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50296
880-26738-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	50296
880-26738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50296

Prep Batch: 50296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-13	FS05	Total/NA	Solid	8015NM Prep	
890-4451-14	FS06	Total/NA	Solid	8015NM Prep	
MB 880-50296/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50296/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26738-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-1	BH01	Total/NA	Solid	8015 NM	
890-4451-2	BH01A	Total/NA	Solid	8015 NM	
890-4451-3	SS01A	Total/NA	Solid	8015 NM	
890-4451-4	SS02A	Total/NA	Solid	8015 NM	
890-4451-5	SS03A	Total/NA	Solid	8015 NM	
890-4451-6	SS04	Total/NA	Solid	8015 NM	
890-4451-7	SS05	Total/NA	Solid	8015 NM	
890-4451-8	SS06	Total/NA	Solid	8015 NM	
890-4451-9	FS01	Total/NA	Solid	8015 NM	
890-4451-10	FS02	Total/NA	Solid	8015 NM	
890-4451-11	FS03	Total/NA	Solid	8015 NM	
890-4451-12	FS04	Total/NA	Solid	8015 NM	
890-4451-13	FS05	Total/NA	Solid	8015 NM	
890-4451-14	FS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-1	BH01	Soluble	Solid	DI Leach	
890-4451-2	BH01A	Soluble	Solid	DI Leach	
890-4451-3	SS01A	Soluble	Solid	DI Leach	
890-4451-4	SS02A	Soluble	Solid	DI Leach	
MB 880-50480/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4450-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4450-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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Client: Ensolum

Job ID: 890-4451-1

Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

HPLC/IC

Leach Batch: 50482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-5	SS03A	Soluble	Solid	DI Leach	
890-4451-6	SS04	Soluble	Solid	DI Leach	
890-4451-7	SS05	Soluble	Solid	DI Leach	
890-4451-8	SS06	Soluble	Solid	DI Leach	
890-4451-9	FS01	Soluble	Solid	DI Leach	
890-4451-10	FS02	Soluble	Solid	DI Leach	
890-4451-11	FS03	Soluble	Solid	DI Leach	
890-4451-12	FS04	Soluble	Solid	DI Leach	
890-4451-13	FS05	Soluble	Solid	DI Leach	
890-4451-14	FS06	Soluble	Solid	DI Leach	
MB 880-50482/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50482/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50482/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4451-5 MS	SS03A	Soluble	Solid	DI Leach	
890-4451-5 MSD	SS03A	Soluble	Solid	DI Leach	

Analysis Batch: 50729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-5	SS03A	Soluble	Solid	300.0	50482
890-4451-6	SS04	Soluble	Solid	300.0	50482
890-4451-7	SS05	Soluble	Solid	300.0	50482
890-4451-8	SS06	Soluble	Solid	300.0	50482
890-4451-9	FS01	Soluble	Solid	300.0	50482
890-4451-10	FS02	Soluble	Solid	300.0	50482
890-4451-11	FS03	Soluble	Solid	300.0	50482
890-4451-12	FS04	Soluble	Solid	300.0	50482
890-4451-13	FS05	Soluble	Solid	300.0	50482
890-4451-14	FS06	Soluble	Solid	300.0	50482
MB 880-50482/1-A	Method Blank	Soluble	Solid	300.0	50482
LCS 880-50482/2-A	Lab Control Sample	Soluble	Solid	300.0	50482
LCSD 880-50482/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50482
890-4451-5 MS	SS03A	Soluble	Solid	300.0	50482
890-4451-5 MSD	SS03A	Soluble	Solid	300.0	50482

Analysis Batch: 50736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4451-1	BH01	Soluble	Solid	300.0	50480
890-4451-2	BH01A	Soluble	Solid	300.0	50480
890-4451-3	SS01A	Soluble	Solid	300.0	50480
890-4451-4	SS02A	Soluble	Solid	300.0	50480
MB 880-50480/1-A	Method Blank	Soluble	Solid	300.0	50480
LCS 880-50480/2-A	Lab Control Sample	Soluble	Solid	300.0	50480
LCSD 880-50480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50480
890-4450-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	50480
890-4450-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50480

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Client Sample ID: BH01

Client: Ensolum

Matrix: Solid

Date Collected: 03/30/23 09:55 Date Received: 03/30/23 16:58

	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	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 13:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/10/23 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50480	04/06/23 10:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50736	04/08/23 15:16	SMC	EET MID

Client Sample ID: BH01A

Lab Sample ID: 890-4451-2

Matrix: Solid

Date Collected: 03/30/23 10:00 Date Received: 03/30/23 16:58

	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	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/10/23 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 00:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50480	04/06/23 10:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50736	04/08/23 15:20	SMC	EET MID

Client Sample ID: SS01A

Date Collected: 03/30/23 11:40 Date Received: 03/30/23 16:58

Lab	Sample	ID:	890-4451-3	
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/10/23 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 01:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50480	04/06/23 10:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50736	04/08/23 15:25	SMC	EET MID

Client Sample ID: SS02A

Date Collected: 03/30/23 11:45 Date Received: 03/30/23 16:58

Lab	Sample	ID:	890-4451-4	
			Matrix: Solid	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/10/23 17:54	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon 12 Battery

Job ID: 890-4451-1
SDG: 03C1558192

Client Sample ID: SS02A

Date Collected: 03/30/23 11:45 Date Received: 03/30/23 16:58 Lab Sample ID: 890-4451-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

	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			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 01:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50480	04/06/23 10:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50736	04/08/23 15:29	SMC	EET MID

Client Sample ID: SS03A Lab Sample ID: 890-4451-5

Date Collected: 03/30/23 11:50 Date Received: 03/30/23 16:58

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 5.05 g 5 mL 50529 04/06/23 15:17 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 50770 04/10/23 14:25 MNR **EET MID** 1 Total/NA Total BTEX Analysis 1 50857 04/10/23 17:54 SM **EET MID** Total/NA Analysis 8015 NM 50301 04/04/23 10:02 SM **EET MID** Total/NA Prep 8015NM Prep 10.02 g 10 mL 50230 04/03/23 15:37 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 50110 04/04/23 02:11 SM **EET MID** 1 uL Soluble Leach DI Leach 4.95 g 50 mL 50482 04/06/23 10:18 KS **EET MID** Soluble Analysis 300.0 1 50 mL 50 mL 50729 04/08/23 11:42 SMC **EET MID**

Client Sample ID: SS04 Lab Sample ID: 890-4451-6

Date Collected: 03/30/23 12:10 Date Received: 03/30/23 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/10/23 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 11:57	SMC	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4451-7

Date Collected: 03/30/23 12:15 Date Received: 03/30/23 16:58

_	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	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/10/23 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	50230 50110	04/03/23 15:37 04/04/23 02:54	AJ SM	EET MID EET MID

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Job ID: 890-4451-1

Client: Ensolum Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: SS05 Lab Sample ID: 890-4451-7

Date Collected: 03/30/23 12:15 **Matrix: Solid** Date Received: 03/30/23 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:02	SMC	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4451-8

Date Collected: 03/30/23 12:20 Matrix: Solid Date Received: 03/30/23 16:58

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.01 g 50529 04/06/23 15:17 MNR EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 04/10/23 15:27 MNR Analysis 1 50770 **EET MID** Total/NA Total BTEX 50857 04/10/23 17:54 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 50301 04/04/23 10:02 SM **EET MID** 50230 EET MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 04/03/23 15:37 AJ 8015B NM 50110 04/04/23 03:16 **EET MID** Total/NA Analysis 1 uL 1 uL SM Soluble DI Leach 5.02 g 50 mL 50482 04/06/23 10:18 KS **EET MID** Leach 50 mL 300.0 50 mL 50729 04/08/23 12:06 SMC **EET MID** Soluble Analysis 1

Client Sample ID: FS01 Lab Sample ID: 890-4451-9

Date Collected: 03/30/23 14:20 **Matrix: Solid** Date Received: 03/30/23 16:58

	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	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 16:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/11/23 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 03:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:11	SMC	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4451-10

Date Collected: 03/30/23 14:25 Matrix: Solid Date Received: 03/30/23 16:58

	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	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/11/23 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 03:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:26	SMC	EET MID

Project/Site: PLU Pierce Canyon 12 Battery

Client Sample ID: FS03

Client: Ensolum

Date Collected: 03/30/23 14:30 Date Received: 03/30/23 16:58 Lab Sample ID: 890-4451-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/11/23 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 04:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:31	SMC	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4451-12

Date Collected: 03/30/23 14:35 Date Received: 03/30/23 16:58

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/11/23 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/04/23 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50230	04/03/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50110	04/04/23 04:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:35	SMC	EET MID

Client Sample ID: FS05

Date Collected: 03/30/23 14:55 Date Received: 03/30/23 16:58

Lab Sample ID: 890-4451-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/11/23 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50301	04/05/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50296	04/04/23 09:34	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50277	04/04/23 12:19	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:40	SMC	EET MID

Client Sample ID: FS06

Date Collected: 03/30/23 15:00

Date Received: 03/30/23 16:58

Lab Sample ID:	890-4451-14
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	50529	04/06/23 15:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50770	04/10/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50857	04/11/23 10:26	SM	EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4451-1
Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Client Sample ID: FS06 Lab Sample ID: 890-4451-14

Date Collected: 03/30/23 15:00 Matrix: Solid
Date Received: 03/30/23 16:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50301	04/05/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50296	04/04/23 09:34	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50277	04/04/23 12:41	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50482	04/06/23 10:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50729	04/08/23 12:45	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4451-1 Project/Site: PLU Pierce Canyon 12 Battery SDG: 03C1558192

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum

Project/Site: PLU Pierce Canyon 12 Battery

Job ID: 890-4451-1

SDG: 03C1558192

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Job ID: 890-4451-1

Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

Project/Site: PLU Pierce Canyon 12 Battery

SDG: 03C1558192

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4451-1	BH01	Solid	03/30/23 09:55	03/30/23 16:58
890-4451-2	BH01A	Solid	03/30/23 10:00	03/30/23 16:58
890-4451-3	SS01A	Solid	03/30/23 11:40	03/30/23 16:58
890-4451-4	SS02A	Solid	03/30/23 11:45	03/30/23 16:58
890-4451-5	SS03A	Solid	03/30/23 11:50	03/30/23 16:58
890-4451-6	SS04	Solid	03/30/23 12:10	03/30/23 16:58
890-4451-7	SS05	Solid	03/30/23 12:15	03/30/23 16:58
890-4451-8	SS06	Solid	03/30/23 12:20	03/30/23 16:58
890-4451-9	FS01	Solid	03/30/23 14:20	03/30/23 16:58
890-4451-10	FS02	Solid	03/30/23 14:25	03/30/23 16:58
890-4451-11	FS03	Solid	03/30/23 14:30	03/30/23 16:58
890-4451-12	FS04	Solid	03/30/23 14:35	03/30/23 16:58
890-4451-13	FS05	Solid	03/30/23 14:55	03/30/23 16:58
890-4451-14	FS06	Solid	03/30/23 15:00	03/30/23 16:58

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Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

** eurofins

Xelo o

ompany Name:

Ensolum

3122 National Parks Hwy

Carlsbad, NM 88220

City, State ZIP: Address: Company Name: Bill to: (if different)

Carlsbad, NM 88220

3104 E. Green St.

XTO Energy

Garrett Green

roject Manager:

Ben Belill

ity, State ZIP:

Chain of Custody

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

	- R	St.	₽		; 	
Deliverables: EDD []	Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund			
j	evel II	oject:	ST/PST		¥	Wol
]	Level III	ľ	_ PRP	₩ork (www.xenco.com	Work Order No:
	☐ PST/	L	Brown	Work Order Comments	o.com	er No:
	UST []	[ields	ommeni	Page	4
2	TRRP [[RRC	io.	eiemonijk _{es} a	944
] Level IV□	1	Superfu		9 N	10
					10	

	Email: Garrett.Green@ExxonMobil.com	@ExxonMobil.com	Deliverables: EDD ADaPT LJ Other:
Project Name: PLU Pierce Canyon 12 Battery	y Turn Around	ANALYSIS RE	EQUEST Preservative Codes
Project Number 03C1558192	Routine 🔲 Rush	Pros. Code	None: NO DI Water: H ₂ O
Project Location:	Due Date:		
Sampler's Name. Connor Whitman	TAT starts the day received by		
PO#	the lab, if received by 4:30pm	rs	~
SAMPLE RECEIPT Jemp Blank: (Yes) No	o Wetloe: (Yes No	0)	•
Samples Received Intact (Yes) No Thermometer ID:			NaHSO, NABIS
			Na ₂ S ₂ O ₃ . NaSO ₃
Sample Custody Seals: Yes No N/A Temperati	Temperature Reading: コリソー	(EP	Zn Acetate+NaOH: Zn
Total Containers: Corrected	Corrected Temperature:	15)	NaOH+Ascorbic Acid: SAPC
Sample identification Matrix Sampled	Time Depth Grab/	CHLOR TPH (80 BTEX (6	Sample Comments
BH0) S 3/30/23	13 955am 15 G	**************************************	Incident ID:
マキのナ	-		nAPP2306152871
\$3 _G) A	111:40=4) G		
\$50ZA	11450, 1 6	/	Cost Center:
Ss 03.4	1150ar G		1081051001
SSey	1210 m 5 G		AFE:
505	:5		
5306	1220pm 15 G		
<i>[</i> 50]	2:2000		
F502	2:25 pm 1 C		
Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb	b Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 81	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	No Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	onstitutes a valid purchase order from and shall not assume any responsibili	ent company to Eurofins Xenco, its affiliates and subcontractor for any losses or expenses incurred by the client if such losses	s. It assigns standard terms and conditions are due to circumstances beyond the control
_			ine this pee allies of president inglessace.
Relinquished by: (Signature) / Rece	Received by: (Signature)	Date/Time Relinquished by: (Signature)	nature) Received by: (Signature) Date/Time

** eurofins

Project Number: Project Name: Phone: City, State ZIP: Company Name:

Ben Belill Ensolum

ddress:

Carlsbad, NM 88220 3122 National Parks Hwy

303-887-2946

Email: | Garrett.Green@ExxonMobil.com

Address: Company Name:

3104 E. Green St Carlsbad, NM 88220

Bill to: (if different)

Garrett Green

XTO Energy

City, State ZIP:

PLU Pierce Canyon 12 Battery

Turn Around

Rush

Code

HCL: HC

MeOH: Me HNO₃: HN NaOH: Na

Cool: Coo

NaHSO₄: NABIS H₃PO₄: HP H₂S0₄: H₂

Na₂S₂O₃: NaSO₃

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

Sample Comments

None: NO

DI Water: H₂O

03C1558192

Sampler's Name: Project Location:

Connor Whitman

Due Date: Routine

TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT

eno Blank:

Wet lce:

/ Yes

Parameters

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Thermometer ID: Yes No

Samples Received Intact:

Sample Custody Seals: Cooler Custody Seals:

Yes Yes No.

No

X

Corrected Temperature:

Correction Factor. Temperature Reading:

> 0 TO M

CHLORIDES (EPA: 3000.0)

otal Containers:

Sample Identification

Matrix

Sampled 3/30/13

Sampled

Date

Time

Depth

Comp Grab/

Cont # Q

TPH (8015) BTEX (8021)

FIOC K505

300 pm

235

230 pm

185°

0 0

Cost Center

1081051001

Incident ID:

nAPP2306152871

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> Xenco Inviorment Testing

Chain of Custody

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

- I	
Other	Deliverables: EDD
Reporting: Level II 🗌 Level III 🗎 PST/UST 🗍 TRRP 📗 Level IV	Reporting: Level II
ı	State of Project:
Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	Program: UST/PST
Work Order Comments	
www.xenco.com Page of	W

Revised Date: 08/25/2020 Rev. 2020,2	5
	2 Control of the Cont
	3.30:33 1658
gnature) Date/Time	Relinquished by: (Signature)
iated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions hotice: Signature of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco, A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated in the control of the con
Ag SIO ₂ Na St II SII O V ZII Hg: 1631/245.1/7470/7471	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr II Si Ci V Zii Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471
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Work Order No:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4451-1 SDG Number: 03C1558192

Login Number: 4451 List Source: Eurofins Carlsbad

List Number: 1

Creator: Kramer, Jessica

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4451-1

 SDG Number: 03C1558192

List Source: Eurofins Midland List Creation: 04/03/23 09:29 AM

Creator: Rodriguez, Leticia

Login Number: 4451

List Number: 2

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

Released to Imaging: 9/20/2023 8:49:23 AM Page 40 of 40 4/11/2023

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<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Foust, Bryan Jacob

Sent: Wednesday, March 1, 2023 10:07 AM

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

Cc: DelawareSpills /SM; Green, Garre J

Subject: XTO - 48 hour liner inspec on no fica on - Poker Lake Unit Pierce Canyon 12 ba ery -

released 2/17/2023

Good morning,

This is sent as a 48-hour no fica on. XTO is scheduled to inspect the lined containment at the Poker Lake Unit Pierce Canyon 12 ba ery, released 2/17/2023, on Friday March 3 at 2:00 PM MST. 24 hour no fica on was sent 2/20/2023 at 6:40 AM since release was greater than 25 barrels. Please call us with any ques ons or concerns.

GPS coordinates: 32.22536, -103.93067

Thank you,

Jake Foust SSHE Coordinator (environmental) 432-266-2663

Ben Belill

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

Sent: Thursday, March 23, 2023 9:51 AM

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD

Cc: Ben Belill; DelawareSpills /SM

Subject: XTO - Sampling Notification (Week of 3/27/23 - 3/31/23)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of Mar 27, 2023.

Tuesday, Mar 28, 2023

- PLU 13 Dog Town Draw Battery / nAPP2304448906
- Nash 53 SWD / NAB1918643207, NRM2022758966, NAPP2102934064, NAPP2100847227, and NAPP2100838523

Wednesday, Mar 29, 2023

- PLU Pierce Canyon 12 Battery / nAPP2306152871
- PLU 13 Dog Town Draw Battery / nAPP2304448906

Thursday, Mar 30, 2023

- PLU Pierce Canyon 12 Battery / nAPP2306152871
- BEU 149 / NAB1814128371
- PLU 15 TWR Battery / nAPP2305833429

Friday, Mar 31, 2023

- PLU 15 TWR Battery / nAPP2305833429
- JRU 21 SWD / nAB1834656162

Thank you,

Garrett Green

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

XTO Energy, Inc.

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

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

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

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

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

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

CONDITIONS

Action 213576

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	213576
	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 #NAPP2306152871 PLU PIERCE CANYON 12 BATTERY, thank you. This closure is approved.	9/19/2023