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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party			OGRID	OGRID				
Contact Nam	ne			Contact Te	elephone				
Contact ema	il			Incident #	dent # (assigned by OCD)				
Contact mail	ing address			1					
			Location	of Release So	ource				
Latitude				Longitude _					
			(NAD 83 in de	cimal degrees to 5 decim	nal places)				
Site Name				Site Type					
Date Release	Discovered			API# (if app	licable)				
Unit Letter	Section	Township	Range	Coun	ty	_			
Surface Owner	r: State	☐ Federal ☐ Tr	ribal 🔲 Private ()	Name:)			
Surface Owner	i. State		iloai 🔲 i iivate (i			,			
			Nature and	d Volume of F	Release				
	Materia	l(s) Released (Select al	ll that apply and attach	a calculations or specific	justification for the	volumes provided below)			
Crude Oil		Volume Release		•	Volume Recovered (bbls)				
Produced	Water	Volume Release	ed (bbls)		Volume Reco	vered (bbls)			
			tion of total dissol		Yes N	lo			
Condensa	ute.	in the produced Volume Release	water >10,000 mg	g/l?	Volume Reco	avered (hbls)			
Natural G		Volume Release			Volume Reco				
				•		, ,			
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weig	ght Recovered (provide units)			
Cause of Rel	ense								
Cause of Ker	case								

Received by OCD: 3/18/2024 4:12:00 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

73	-		•	-	-	
Page	7	O	r	1	"	ч
I ugc	44	v_{j}		L.		

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	ponsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If YES, was immediate notice given to the OCD? By whom? To	whom? When and by what means (phone email etc.)?
in TES, was infinediate notice given to the OCD: By whom: To	whom: when and by what means (phone, eman, etc):
Initial	Response
The responsible party must undertake the following actions immediate	ately unless they could create a safety hazard that would result in injury
☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health a	and the environment.
Released materials have been contained via the use of berms of	or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed	and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, expla	in why:
	re remediation immediately after discovery of a release. If remediation ial efforts have been successfully completed or if the release occurred), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to	
public health or the environment. The acceptance of a C-141 report by the	notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance of a C-141 report does not relieve the operator	threat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Signature:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Location:	PLU Big Sinks 3-25-30									
Spill Date:	9/20/2023									
	Area 1									
Approximate A	Approximate Area = 20358.00 sq. ft.									
Average Satura	tion (or depth) of spill =	3.00	inches							
Average Porosi	Average Porosity Factor = 0.15									
	VOLUME OF LEAK									
Total Crude Oil	=	0.00	bbls							
Total Produced	Water =	135.97	bbls							
	Area 2									
Approximate A	rea =	4237.00	sq. ft.							
Average Satura	tion (or depth) of spill =	1.00	inches							
Average Porosi	ty Factor =	0.03								
	VOLUME OF LEAK									
Total Crude Oil	=	0.00	bbls							
Total Produced	Water =	46.89	bbls							

TOTAL VOLUME OF LEAK								
Total Crude Oil =	0.00	bbls						
Total Produced Water =	182.86	bbls						
TOTAL VOLUME RECOVERED	TOTAL VOLUME RECOVERED							
Total Crude Oil =	0.00	bbls						
Total Produced Water =	45.00	bbls						



March 18, 2024

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

Re: Remediation Work Plan and Variance Request

PLU Big Sinks 3-25-30

Incident Number NAPP2327751376

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document assessment and delineation activities completed to date and propose remedial actions to address impacted soil identified at the PLU Big Sinks 3-25-30 (Site). The purpose of the Site assessment and delineation activities was to determine the presence or absence of impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes to excavate impacted soil and requests a variance for confirmation soil sampling frequency.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 3, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.15314°, -103.86766°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 20, 2023, internal corrosion on a main produced water pipeline caused the release of approximately 182.86 barrels (bbls) of produced water onto the surface of the well pad and into the adjacent pasture area. A vacuum truck was dispatched and recovered 45 bbls of released fluids. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Notification of Release (NOR) on an Initial C-141 Application (C-141) on October 4, 2023. The release was assigned Incident Number NAPP2327751376.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. In August 2023, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-04757) was completed approximately 255 feet east of the release utilizing air rotary drilling methods. Soil boring C-04757 was drilled to a depth of 119 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The soil boring was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 119 feet bgs. The

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 882200 | ensolum.com

XTO Energy, Inc. Remediation Work Plan and Variance Request PLU Big Sinks 3-25-30

borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 1,763 feet southwest of the Site. The Site is greater than 200 feet from any 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 applied to the top 4 feet of pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES

On October 13, 2023, Ensolum personnel conducted Site assessment activities to evaluate the release extent based on information provided in the C-141 and visual observations. Twelve delineation soil samples (SS01 through SS12) were collected within the release at a depth of 0.5 feet bgs. All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log of the Site assessment is included in Appendix B.

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



XTO Energy, Inc. Remediation Work Plan and Variance Request PLU Big Sinks 3-25-30

DELINEATION SOIL SAMPLING ACTIVITIES

On November 15 and December 11, 2023, Ensolum returned to the Site to conduct delineation and activities. Twelve boreholes (BH01 through BH12) were advanced utilizing a hand auger to investigate the extent of the release. The boreholes were advanced to depths ranging from 1-foot to 3 feet bgs. Discrete delineation soil samples (BH01 through BH12) were collected within each borehole at the terminal depths ranging from 1-foot to 3 feet bgs. Delineation soil samples BH01 through BH12 and were advanced in the vicinity of delineation soil samples SS01 through SS12, respectively. In addition, delineation soil samples SS13 through SS32 were collected 1 to 2 feet from the edge of the release along the edge of the release extent. The delineation soil samples were handled and analyzed following the same procedures as described above. The borehole soil sample locations are depicted on figure 2. Field screening results and observations for all boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated concentrations of benzene, BTEX, TPH-GRO/TPH-DRO, and TPH were all compliant with the Closure Criteria. Delineation soil samples SS01/BH01 through SS12/BH12 collected within the release extent contained soil with chloride concentrations exceeding the Closure Criteria and/or reclamation requirement applied in the top 4 feet. The elevated chloride concentrations at the surface ranged from 1,430 mg/kg in SS11 to 29,600 mg/kg in SS02. The elevated chloride concentrations at the terminal depth of the boreholes, ranging from 1-foot to 3 feet bgs ranged from 272 mg/kg in BH11 to 5,360 mg/kg in BH09. Lateral delineation soil samples SS13 through SS32, collected 1 to 2 feet from the edge of the release extent, indicated all COCs were compliant with the Closure Criteria and reclamation requirement and successfully define the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

XTO proposes to remove chloride-impacted and waste containing soil identified at the Site. An estimated 3,800 cubic yards of soil will be removed, and the proposed excavation extent is depicted on Figure 3. Although the release has not been fully vertically delineated to the strictest Closure Criteria due to auger refusal, COC concentrations were decreasing with depth. XTO anticipates a maximum depth of excavation of 4 feet bgs. In addition, the lateral extent of the release has been fully defined by delineation soil samples SS13 through SS32. Following the removal of impacted and waste-containing soil, confirmation soil samples will be collected along the floors and sidewalls of the final excavation extent.

Due to the estimated size of the excavation, XTO requests a variance for sampling frequency of all confirmation samples. XTO proposes five-point composite samples be collected at a sampling frequency of 500 square feet. The proposed sampling frequency would reduce the total amount of samples from approximately 194 samples (200 square-foot frequency) to approximately 52 samples. The quantity of samples is unlikely to reduce the ability to identify residual contaminants, especially since the reclamation requirement is being applied in the top 4 feet. No sensitive receptors will be impacted. Most of the soil in the root zone (top 4 feet) will be removed, eliminating potential impairment to vegetation. Wildlife and humans are not generally affected by chloride concentrations in soil through touch or ingestion, especially at near 600 mg/kg levels and at depths that will be overlain by clean imported fill material. As such, this variance request appears to be equally protective of human health, the environment, and groundwater.



XTO Energy, Inc. Remediation Work Plan and Variance Request PLU Big Sinks 3-25-30

The proposed collection of sidewall confirmation soil samples will serve as horizontal definition of the release. The proposed collection of floor confirmation soil samples will serve as vertical definition of the release. The soil samples will be handled and analyzed for COCs as described above and submitted to Cardinal for laboratory analysis. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal. The excavation will be backfilled and recontoured to match pre-existing Site conditions and the pasture area will be reseeded with a BLM-approved seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* with variances by NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Daniel R. Moir, PG

Senior Managing Geologist

Sincerely, **Ensolum, LLC**

Tracy Hillard Staff Engineer

Trans Hotal

cc: Amy Ruth, XTO

Amanda Garcia, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Proposed Excavation Extent
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

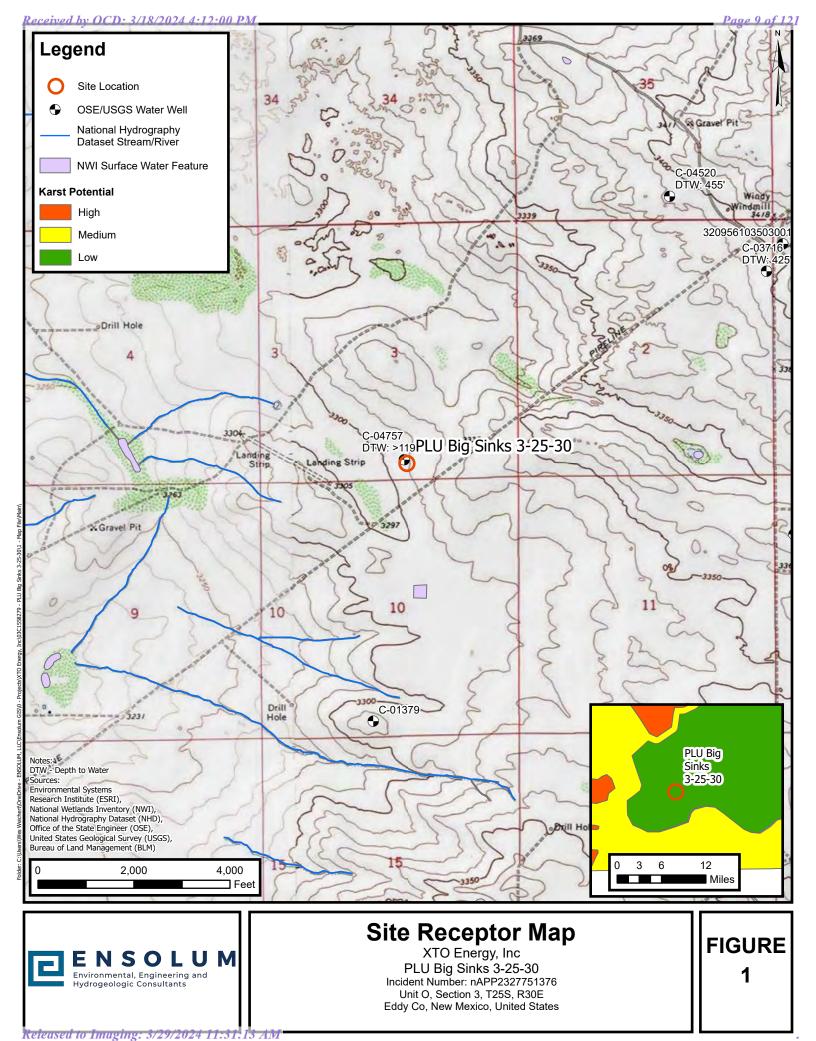
Appendix C Lithologic / Soil Sampling Logs

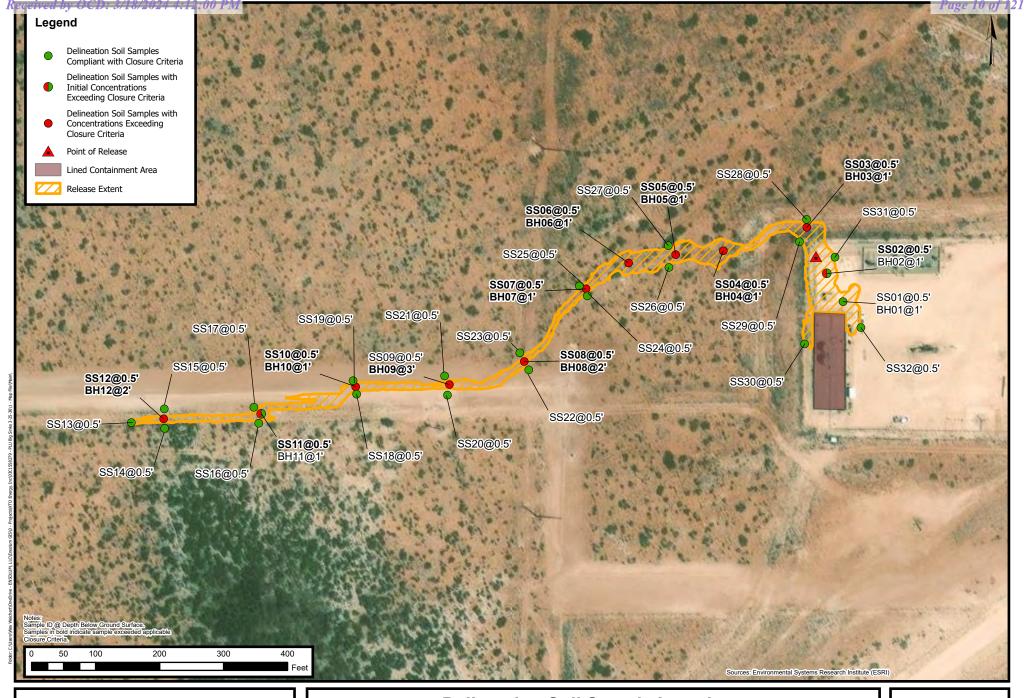
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES



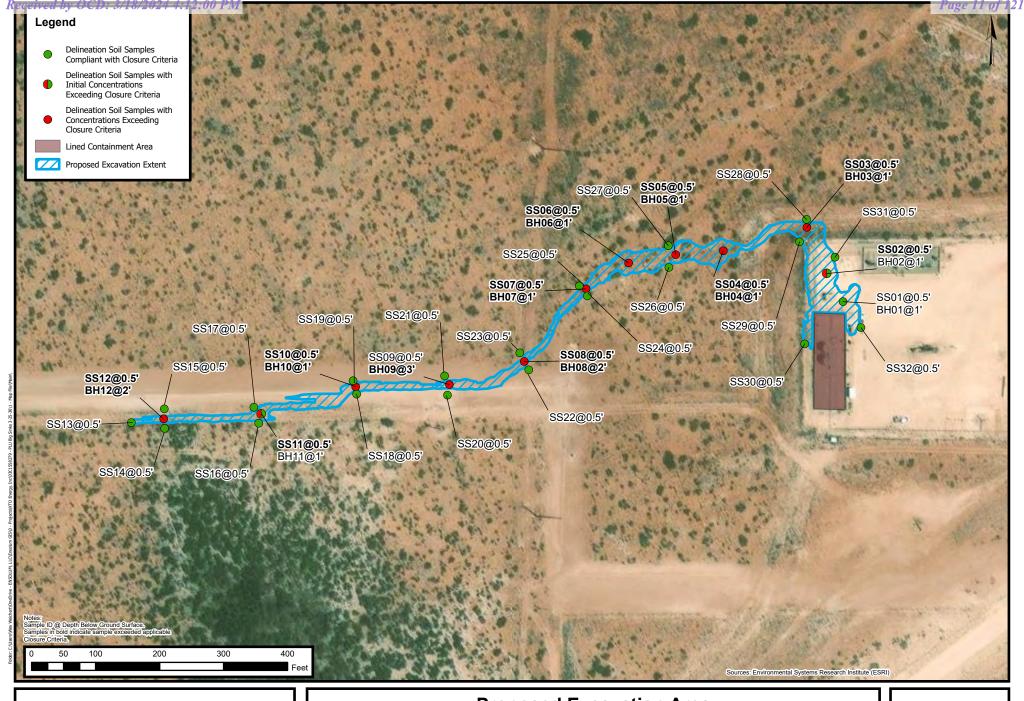




Released to Imaging: 3/29/2024 11:31:13 AM

Delineation Soil Sample Locations

XTO Energy, Inc PLU Big Sinks 3-25-30 Incident Number: nAPP2327751376 Unit O, Section 3, T25S, R30E Eddy Co, New Mexico, United States FIGURE 2





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Proposed Excavation Area

XTO Energy, Inc
PLU Big Sinks 3-25-30
Incident Number: nAPP2327751376
Unit O, Section 3, T25S, R30E
Eddy Co, New Mexico, United States

FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 3-25-30 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	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
SS01	10/13/2023	0.5	<0.00199	<0.00398	<49.6	81.6	<49.6	81.6	81.6	18,400
BH01	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,600
SS02	10/13/2023	0.5	<0.00200	<0.00399	98.7	271	<50.5	370	370	29,600
BH02	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,480
SS03	10/13/2023	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	16,100
BH03	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
SS04	10/13/2023	0.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	7,430
BH04	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
SS05	10/13/2023	0.5	<0.00201	<0.00402	<49.5	<49.5	<49.5	<49.5	<49.5	11,800
BH05	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,720
SS06	10/13/2023	0.5	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	8,440
BH06	03/11/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,680
SS07	10/13/2023	0.5	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	19,600
BH07	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
SS08	10/13/2023	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	26,800
BH08	03/11/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,880
SS09	10/13/2023	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	380
BH09	03/11/2024	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360
SS10	10/13/2023	0.5	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	5,250
BH10	03/11/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,720
SS11	10/13/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
BH11	03/11/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS12	10/13/2023	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	5,260
BH12	03/11/2024	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
SS13	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS14	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SS15	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS16	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS17	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SS18	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS19	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Ensolum 1 of 2



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** PLU Big Sinks 3-25-30 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 (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SS20	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS21	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS22	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS23	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS24	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS25	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS26	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS27	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS28	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS29	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS30	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS31	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS32	03/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224

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 2 of 2



APPENDIX A

Referenced Well Records

								Sample Name: C-04757 (BH01)	Date: 8/2/2023			
	ш		N	6	OI		RA	Site Name: PLU CVX JV BS #016H				
	!!		V	3		_ U		Incident Number: NAB1519556419				
								Job Number: 03C1558238				
	L	ITHOL	OGIC	/ SOIL S	SAMPLING	LOG		Logged By: MR	Method: Air Rotary			
Coordinates: 32.152842, -103.866772								Hole Diameter: 5"	Total Depth: 119' bgs			
Comment	ts: No f	ield scre	ening	s.				•				
Moisture Content Chloride	Moisture Content Chloride (ppm) Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock Symbol							Lithologic Descriptions				
						0 10	CCHE	O'-20' CALICHE GRAVEL, ligh grained, poorly sorted wi rounded grains, dry.				
						20 - - 30 - - - - - - - - - - - - - - - -	SP	20'-70' SAND with trace calic medium grained with sma poorly sorted, sub-round Injected water and foaming	all grained caliche, ed.			
					- - - -	60 - - - 70	GM	70'-90' GRAVEL conglomera	te with sand, small			
					- - - - -	- - - 80 -		gravel w medium grained quartzite and chert, poor grains, ~30% sand. 20% sand.				
					- - - -	90 - -	SP	90'-115' SAND, medium broggrained, poorly sorted.	wn/orange, medium			
					- - - -	100						
					- - - -	120 TD	SP-SM	115' SAND with silt, red, me poorly sorted. Total Depth @ 119' bgs.	dium to fine grained,			



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc. PLU Big Sinks 3-25-30 Incident Number nAPP2327751376





Date: 10/13/2024 Photograph: 1

Description: Site assessment actvities, release area.

View: Southwest

Photograph: 2 Date: 10/13/2024 Description: Site assessment actvities, release area.

View: South





Photograph: 3 Date: 10/13/2024

Description: Site assessment actvities, release area.

View: West

Photograph: 4 Date: 10/13/2024 Description: Site assessment actvities, release area.

View: Southwest



Photographic Log

XTO Energy, Inc.
PLU Big Sinks 3-25-30
Incident Number nAPP2327751376





Photograph: 5 Date: 3/11/2024

Description: BH05 Delineation by Hand Auger

View: Northeast

Photograph: 6 Date: 3/11/2024

Description: BH09 Delineation by Hand Auger

View: Northeast





Photograph: 7 Date: 3/11/2024

Description: BH11 Delineation by Hand Auger

View: Northeast

Photograph: 8 Date: 3/11/2024

Description: BH12 Delineation by Hand Auger

View: Southeast



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 3/11/2024
	7						B. A	Site Name: PLU Big Sinks 3-25	
			N	3	U	LU	IVI	Incident Number: NAPP2327	
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL S	SAMPLING		Logged By: M. O'Dell Method: Hand Auger		
Coord	Coordinates: 32.153193, -103.867498							Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, re easurements made with a +40	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
					1	0	CCHE (fill)	0-1', CALICHE, moist, of fill material.	f white, compacted
М	24,018	15.7	Υ	SS01	0.5	-	(1111)	mi material.	
М	6,300	0.0	Υ	BH01	1 _	_ 1			
	5,500		·	2.701			TD	Auger Refusal @ 1' bgs.	
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						12			

								Sample Name: BH02	Date: 3/11/2024
								Site Name: PLU Big Sinks 3-25	
			N	3	U	U	V	Incident Number: NAPP23277	
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL S	SAMPLING	Logged By: M. O'Dell	Method: Hand Auger		
Coord	Coordinates: 32.153315, -103.867579							Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, re easurements made with a +40	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
					1	0	CCHE (fill)	0-1', CALICHE, moist, off fill material.	f white, compacted
М	30,122	1.2	Υ	SS02	0.5	-	(1111)	in material.	
М	4,945	0	Υ	BH02	1	_ 1			
	.,5 .5		·	2.702			TD	Auger Refusal @ 1' bgs.	
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								C N BUO2	D : 2/44/2024
7	7	_						Sample Name: BH03	Date: 3/11/2024
		E	N	S	OI	_ U	M	Site Name: PLU Big Sinks 3-25-30	7.C
			-					Incident Number: NAPP232775137	/b
			-					Job Number: 03C1558279	
					SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
		2.153513						Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, respect easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
					1	0	SP	0-1', SAND, reddish brown, v	very fine to fine
D	18,026	2.8	N	SS03	0.5			grained, poorly graded, dry	, no odor.
D	$0 \mid 4,189 \mid 0 \mid N \mid BH03 \mid 1 \mid \frac{1}{1} \mid 1 \mid \frac{1}{1}$							Auger Refusal @ 1' bgs.	
								Auger Nerusar @ 1 bgs.	
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								Sample Name: BH04	Date: 3/11/2024
	7							Site Name: PLU Big Sinks 3-25-30	Date: 3/11/2024
			N	5	OL	_ U	M	Incident Number: NAPP232775137	76
								Job Number: 03C1558279	<u>-</u>
\vdash		LITHO	OGI	C / SOIL G	SAMPLING	ilog		Logged By: M. O'Dell	Method: Hand Auger
Coord		2.153513			ZATALI ELIAC			Hole Diameter: 4"	Total Depth: 1'
					ith HACH Ch	loride Test '	Strins and	PID for chloride and vapor, respect	· ·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
						0	SP	0-1', SAND, reddish brown, v grained, poorly graded, dry,	very fine to fine
D	24,018	251	N	SS04	0.5	_		graineu, poorty gradeu, dry,	, 110 Odol .
۲	2 111	0	N.I		1				
D	3,114	U	N	BH04		_ 1	TD	Auger Refusal @ 1' bgs.	
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								Carrada Nama a BUOF	Data: 2/44/2024			
1	7							Sample Name: BH05	Date: 3/11/2024			
			N	S	OI	U	M	Site Name: PLU Big Sinks 3-25-30 Incident Number: NAPP232775137	76			
			_			_ •	_ =	Job Number: 03C1558279	, u			
₩		LITUO	UCI	C / SOIL 6	SAMPLING	106			Mothod: Hand Arres			
Coord				3.868342	PAIVIPLING	LUG		Logged By: M. O'Dell Hole Diameter: 4"	Method: Hand Auger Total Depth: 1'			
					/ith HACH Ch	loride Test	Strins and	PID for chloride and vapor, respect	·			
								easurements made with a +40% co				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des				
					1	0	SP	0-1', SAND, reddish brown, very fine to fine grained, poorly graded, dry, no odor.				
D	26,639	148	N	SS05	0.5	-		grained, poorty graded, dry	, no odor.			
D	E 26E	0	N	DHOE	1	1						
U	$\begin{bmatrix} 5,365 \end{bmatrix} \begin{bmatrix} 0 \end{bmatrix} \begin{bmatrix} N \end{bmatrix} \begin{bmatrix} BH05 \end{bmatrix} \begin{bmatrix} 1 \end{bmatrix} \begin{bmatrix} 1 \end{bmatrix} \begin{bmatrix} 1 \end{bmatrix} \begin{bmatrix} T \end{bmatrix}$							Auger Refusal @ 1' bgs.	_			
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								Sample Name: BH06	Date: 3/11/2024
	. 7							Site Name: PLU Big Sinks 3-25-30	Date: 5/11/2024
		E	N	S	OI	U	M	Incident Number: NAPP232775137	76
									76
		IITHOI	OGI	r / sou e	SAMPLING	106		Job Number: 03C1558279 Logged By: M. O'Dell	Method: Hand Auger
Coord		2.153369			PAIVIPLING	100		Hole Diameter: 4"	Total Depth: 1'
					vith HACH Ch	olorida Tast 9	Strine and	PID for chloride and vapor, respect	·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
					_	0	SP	0-1', SAND, brown, very fine	to fine
D	11,754	82.6	N	SS06	0.5	<u>-</u>		grained, poorly graded, dry,	, no odor.
D	2,358	0	N	BH06	1 _	_ 1	TD	Auger Refusal @ 1' bgs.	
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								Sample Name: BH07	Date: 3/11/2024
								Site Name: PLU Big Sinks 3-25-30	, , -
			N	3	0 1	_ U	V	Incident Number: NAPP23277513	76
								Job Number: 03C1558279	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord		2.153260						Hole Diameter: 4"	Total Depth: 1'
								PID for chloride and vapor, respeceasurements made with a +40% cc	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
					1	0	SP	0-1', SAND, brown, very fine grained, poorly graded, dry	e to fine
D	19,768	18.6	N	SS07	0.5	<u>-</u>		graineu, poorty graded, dry	, 110 Ouoi .
D		0	N		1				
0	5,813	U	IN	BH07		_ 1	TD	Auger Refusal @ 1' bgs.	
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								Sample Name: BH08	Date: 3/11/2024
	7		NI	C			RA	Site Name: PLU Big Sinks 3-25-30	
			N	3		_ U	IAI	Incident Number: NAPP23277513	76
								Job Number: 03C1558279	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
	inates: 32							Hole Diameter: 4"	Total Depth: 2'
								PID for chloride and vapor, respect easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
D	24,018	1,6	N	SS08	0.5	0	SP	0-2', SAND, brown, very find grained, poorly graded, dry	e to fine , no odor.
D	1,355	0	N		1 _	1			
D	3,349	0	N	BH08	2	- - - 2			
	3,349 0 N BH08 2 1 2 TD							Auger Refusal @ 2' bgs.	
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								Sample Name: BH09	Date: 3/11/2024
	7		N	C		U	M	Site Name: PLU Big Sinks 3-25-30	0
			IN			_ U		Incident Number: NAPP2327751	.376
								Job Number: 03C1558279	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 32	2.152855	, -103	3.869491				Hole Diameter: 4"	Total Depth: 3'
								PID for chloride and vapor, respeeds assurements made with a +40%	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
D	498.2	153.2	N	SS09	0.5 <u> </u>	0	SW	0-3', SAND, brown, very fil grained, poorly graded, d	ne to fine ry, no odor.
D	2,901	0	N		1	1			
D	2,901	U	IN		<u> </u>	- 1			
D	5,365	0	N		2	2			
					-	- -			
D	6,356	0	N	BH09	3	3	TD	Auger Refusal @ 3' bgs.	
					- - -	4			
					- - -	- - 5 -			
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								Sample Name: BH10	Date: 3/11/2024
	7		N	C		- 11	RA	Site Name: PLU Big Sinks 3-25-30	•
						U		Incident Number: NAPP23277513	76
								Job Number: 03C1558279	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord	inates: 32	2.152850	, -103	3.869964				Hole Diameter: 4"	Total Depth: 2'
								PID for chloride and vapor, respece easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De:	scriptions
D	230	230	N	SS10	0.5	0	SP	0-2', SAND, brown, very find grained, poorly graded, dry	e to fine , no odor.
D	2,716	0	N		1	1			
D	6,356	0	N	BH10	2	2			
					-	-	TD	Auger Refusal @ 2' bgs.	
	3								
					-	4			
					- - -	- - - 5			
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					- - -	- 7			
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								Sample Name: BH11	Date: 3/11/2024
	7							Site Name: PLU Big Sinks 3-25-30	Date: 3/ 11/ 202 1
			N	5	OL	_ U	V	Incident Number: NAPP23277513	76
								Job Number: 03C1558279	. 0
1		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
Coord				3.870442				Hole Diameter: 4"	Total Depth: 1'
					ith HACH Ch	nloride Test S	Strips and	PID for chloride and vapor, respec	· ·
								easurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
1					1	0	SP	0-1', SAND, brown, very fine grained, poorly graded, dry	e to fine . no odor.
D	301.4	301.4	N	SS11	0.5	-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
D	409	0	N	BH11	1	_ 1			
						 -	TD	Auger Refusal @ 1' bgs.	
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								Sample Name: BH12	Date: 3/11/2024
			N	C			R.A	Site Name: PLU Big Sinks 3-25-30	
				3		_ U		Incident Number: NAPP23277513	376
								Job Number: 03C1558279	
		LITHOL	.OGI	C / SOIL	SAMPLING	LOG		Logged By: M. O'Dell	Method: Hand Auger
				3.870936				Hole Diameter: 4"	Total Depth: 2'
								PID for chloride and vapor, respecessurements made with a +40% co	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
D	8,164	334	N	SS12	0.5	0	SP	0-2', SAND, brown, very fin grained, poorly graded, dry	e to fine y, no odor.
D	4,631	0	N		1 _	1			
	4 267	0	N.	DUIAO	-				
D	4,267	0	N	BH12	2 _	2	TD	Auger Refusal @ 2' bgs.	
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APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024 Reported: 03/13/2024 Soil

Sampling Type: Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact

Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 11 1' (H241234-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 12 2' (H241234-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 01 @ 1' (H241234-03)

BTEX 8021B

DIEX 6021B	ilig	/ kg	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6600	16.0	03/13/2024	ND	432	108	400	0.00	QM-07, QR-03
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 02 @ 1' (H241234-04)

BTEX 8021B

DIEX 6021B	ilig/	rky .	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 03 @ 1' (H241234-05)

BTEX 8021B

BIEX 8021B	ilig/	rky .	Allalyze	u by. Jn					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	18						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 04 @ 1' (H241234-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	112 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 05 @ 1' (H241234-07)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 06 @ 1' (H241234-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49 1-14	8						

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: BH 07 @ 1' (H241234-09)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 08 @ 2' (H241234-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 09 @ 3' (H241234-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: BH 10 @ 2' (H241234-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

atories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P.O.#:	National Parks HWU	10.00	analyses. All claims including those the security and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequental damages, including without inhaloso, business rade in writing and received by Cardinal within 30 days after completion of the applicable	Address: JOH Dynamics Corrected Temp. *C Cardinal Sange Project Owner: City: CARVADA State: NM Zip: 89220
	P.O.#:	Shad State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: Address: 3104 E. Grane + C1558279 Project Owner: City: Carlsbad Plu Big Sinks 3-25-30 State: NM Zip: 88220 State: NM Zip: 88220 Phone #:	Sample I.D. Sample I.D. Sample I.D. State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Granz, the first state: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Granz, the first state: NM Zip: 88220 Phone #: Fax #:	ess: 3122 National Parks Hwy Company: XTO Carlsbad State: NM Zip: 88220 Attn: Amy 1 e #: 989-85H-0852 Fay #:
ess: 3122 National Parks HWU Company: XTO	Company: A	9-854-0852 Fax #: C1558279 Project Owner: City: CAYIS DAD PLU BIO SINKS 3-25-30 State: NM zip: 89 n: 32.15314 - 103.807000 Phone #:	Sample I.D. Fax #: Fax #: Fax #: 101 02 0 1 101 05 0 1	989-974-0970 Fax#:
Carlabad State: NM Zip: 88220 Attn: Amu	Carlsbad state: NM Zip: 88220 Attn: Amu	C1558279 Project Owner: City: CAYISDAQ PLU BIG SINKS 3-25-30 State: NM Zip: 89 n: 32. 15314 - 103. 80700 Phone #:	Sample I.D. State: NM Zip: 88220 Phone #: Presserv Presserv Soil Oil Sludge Other: Acid/Base: ICE / COOL Other: Acid/Base: A	Address
ess: 31/2 National Parks Hwy Company: XTO En Carlsbad State: NM Zip: 88220 Attn: Amy Rue#: 989-854-0852 Fax#:	Carlsbad State: NM Zip: 88220 Attn: Amy Rue#: 989-854-0852 Fax#:	214 Big Sinks 3-25-30 State: NM Zip: 32. 15314, -103. 86766 Phone #:	Sample I.D. Sample I.D. State: NM Zip: 88220 Phone #: Prax #: Fax #: Fax #: GROUNDWATER WASTEWATER SOIL OIL OIL OTHER: ACID/BASE: ACID/B	03C1558270 Project Owner: City: Carlishad
ess: 5122 National Parks HWY (Carlsbad State: NM Zip: 88220 Attn: Amy Ru e #: 989-854-0852 Fax #: ct #: 03C1558279 Project Owner: ct #: 03C1558279 Project Owner:	CAY 15 bad State: NM Zip: 88220 Attn: Amy Rue#: 989-854-0852 Fax #: ct #: 03C1558279 Project Owner: City: CAY 15 bad	n: 32.15314, -103.807000 Phone #:	Sample I.D. Sample I.D. Sample I.D. Phone #: Preserv. Sampling Provide #: Preserv. Sampling Provide #: Provide #: Preserv. Sampling Provide #: Preserv. Sampling Provide #: Preserv. Sampling Provide #: Preserv. Sampling Provide #: Provide S Provide S Provide S Preserv. Sampling Provide #: Preserv. Sampling Provide #: Provide S	PLU BIO SINKS 3-25-30 State: NM 711.
State: NM Zip: 88220 Attn: Amy Ru 9-854-0852 Fax #: Address: 3104 E City: Carlsbad City: Carlsbad Plu Bio Sinks 3-25-30 State: NM Zip: 80	State: NM Zip: 88220 Attn: Amy Ru 9-854-0852 Fax #: Address: 3104 E C1558279 Project Owner: City: CAPISDAD	SOUND TO TOO TOO	Sample I.D. Sample I.D. Fax #: Fax #: Fax #: Phone #: O1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1531H - 103 O(0716)
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Shad State: NM Zip: 88220 Attn: Amy Rv 9-854-0852 Fax #: C1558279 Project Owner: City: Carlshad 2LU Big Sinks 3-25-30 State: NM Zip: 88220 Attn: Amy Rv 9-854-0852 Fax #: Phone #: Pax #:	Shad State: NM Zip: 88220 Attn: Amy Rv 9-854-0852 Fax #: Address: 3104 E. (Cathshad) C1558 270 Project Owner: City: Cathshad 214 Big Sinks 3-25-30 State: NM Zip: 88 M. 0'0811 Phone #:		Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Signal or (c) omp. # Containers GROUNDWATER WASTEWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: 11:125 ACID/SIGNA TPH	MATRIX
Shad State: NM Zip: 88220 Attn: Amy Rug-85H-0852 Fax #: C1558279 Project Owner: City: CAMShad 2LU Big Sinks 3-25-30 State: NM Zip: 88 M. N'D&l Fax #: Fax #:	Shad State: NM zip: 88220 Attn: Amy Ru 9-854-0852 Fax #: Address: 3104 E. (C1558 270) Address: 3104 E. (City: CANISDA) C1558 270 Project Owner: City: CANISDA) Pluy Big Sinks 3-25-30 State: NM zip: 88 M. N'Dell Phone #: Fax #: Fax #:		Sample I.D. Sample I.D. Sample I.D. Sample I.D. Signature (C)OM Containers Groundwater Wastewater Wastewater Wastewater Soil Oil Sludge Other: ACID/BASE: ICE / COOL OTHER: 11:45 ACID/BASE: 11:45 ACID/BASE: ACID/BA	MATRIX PRESERV. SAMPLING
Shad	Shad State: NM zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: Address: 3104 E. Grang. C1558279 Project Owner: City: CANISDAD 2LU BIQ SINKS 3-25-30 State: NM zip: 88220 m: 32. 15314 - 103. 80700 Phone #: M. 0'Dell MATRIX PRESERV. SAMPLING	MATRIX PRESERV. SAMPLING	101 @ 1	(C)OMI IERS VATER TER
Shad State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558279 Project Owner: City: Carlsbad State: NM Zip: 88220 Project Owner: City: Carlsbad State: NM Zip: 88220 Phone #: M. N'DRII PRESERV, SAMPLING STATER Sample I.D. RESERV, SAMPLING STATER Sign State: NM Zip: 88220 Phone #: PATRIX PRESERV, SAMPLING STATER Sign State: NM Zip: 88220 Phone #: PATRIX PRESERV, SAMPLING STATER Sign State: NM Zip: 88220 Phone #: Pax #: PATRIX PRESERV, SAMPLING STATER Sign State: NM Zip: 88220	Shad	Sample I.D. OF ICE S OF ICE S	102 @ 1; 03 @ 1; 10 03 @ 1; 10 04 @ 1; 10 06 0 1; 10 07 @ 1; 10 08 @ 2; 10 09 09 09 09 09 09 09 09 09 09 09 09 09	(G)RAB OF # CONTAINE
State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558279 Project Owner: City: CANSDAD State: NM Zip: 88220 Phone #: PRESERV. SAMPLING STHER: CID/BASE: CET/COOL: CTP	State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558279 Project Owner: C1558279 Project Owner: C1558279 Project Owner: C1558279 Project Owner: City: CANSDA City:	Sample I.D. (G)RAB OR (C)OMP. (CONTAINERS GROUNDWATER WASTEWATER WASTEWATER OIL OIL SLUDGE OTHER: CE/COOL OTHER: CT/OTICLS TPH	03 © 1' 104 © 1' 100 © 1' 100 © 1' 101 H 08 © 2' 110 H 09 © 3' 110 © 2' 110	101 61 X X X 311240
State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558270 Project Owner: C1558270 Project Owner: C1558270 Project Owner: C1558270 Project Owner: C1578270 Attn: Amy Ruth Address: 3104 E. Grane #: C1578270 State: NM Zip: 88220 Phone #: Fax #: Fax #: Sample I.D. Sample I.D. GGROUNDWATER WATRIX PRESERV. SAMPLING STATE TIME C1578270 Attn: Amy Ruth Address: 3104 E. Grane #: Fax #: Fax #: Fax #: ACID/BASOL STATE TIME C1798270 Attn: Amy Ruth Address: 3104 E. Grane #: Fax #: Fax #: ACID/BASOL SAMPLING SAM	State: NM Zip: 88220 Attn: Amy Ruth 99-854-0852 Fax #: C155 8 270 Project Owner: C155 8 270 Project Owner: City: CANSDAD State: NM Zip: 88220 Attn: Amy Ruth 90-20 City: CANSDAD State: NM Zip: 88220 Fax #: Fax #: Fax #: Fax #: SAMPLING STATE TIME TIME TIME TIME	Sample I.D. PRESERV. Sampling PRES	10. 10. 10. 10. 10. 10. 10. 10.	900
Shadd State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558270 Project Owner: City: CANSDAD Address: 3104 E. Grand + City: CANSDAD State: NM Zip: 88220 M. 0.021 M. 0.021 M. MATRIX PRESERV SAMPLING Phone #: BH0161 M. O. DRI GROUNDWATER WASTEWASTEWN SOIL SLUDGE OTHER: BH0261 M. O. DRI GROUNDWATER WASTEWN SOIL SLUDGE OTHER: BH0261 M. O. DRI TIME C. TO DATE TIME C. THE	State: NM Zip: 88220 Attn: Amy Ruth y Address: 3104 E. Grand to City: Carlsbad State: NM Zip: 88220 Address: 3104 E. Grand to City: Carlsbad State: NM Zip: 88220 Phone #: Sample I.D. Sample I.D. Sample I.D. Size of the containers of the conta	Sample I.D. Sampl	H05@1' H04@2' H09@3' H09@2' 11:	
State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558 279 Project Owner: C1558 279 Project Owner: C1558 279 Project Owner: C1558 279 Project Owner: City: CANSDAD State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Grenne #: City: CANSDAD State: NM Zip: 88220 Phone #: PRESERV. SAMPLING BH01 0 1	State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: C1558279 Project Owner: C1558279 Project Owner: City: Carisbad Address: 3104 E. Grand + City: Carisbad State: NM Zip: 88220 Phone #: Phone #: Preserv. Sampling BH01 @ 1 GGROUNDWATER WASTEWATER SOIL SLUDGE OTHER: ACID/BASEL	Sample I.D. Sampl	HORE 1: HORE 2: HOGE 3: 11: 11:	BH05@1"
Sample I.D. State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Gyana H. City: Captishad State: NM Zip: 88220 Phone #: Pax #: PRESERV SAMPLING SAMPLI	Shad State: NM Zip: 88220 Attn: Amy Ruth 39 (C1558279 Project Owner: C1558279 Project Owner: City: CANSDAD Address: 3104 E. Greane + City: CANSDAD State: NM Zip: 88220 Phone #: Sample I.D. (C) OMP. State: NM Zip: 88220 Phone #: BHO1 @ 1' GROUNDWATER WASTEWASTEWASTEWASTEWASTEWASTEWASTEWASTE	Sample I.D. Sampl	H08@2: H09@3: 110@2:	BH07 (2.1)
Shadd State: NM Zip: 88220 Attn: Amy Ruth Grand C1558279 Project Owner: C1558279 Project Owner: C1558279 Project Owner: C1558270 Project Owner: C1558270 Project Owner: C1558270 Project Owner: C1558270 State: NM Zip: 88220 State: NM Zip: 88220 Phone #: Fax #: Fax #: BH01 @ 1' BH02 @ 1' BH03 @ 1' BH04 @ 1' BH05 @ 1' BH06 @ 1' BH06 @ 1' BH06 @ 1' BH06 @ 1' BH07 @ 1' BH08 @ 1' BH08 @ 1' BH09 @ 1'	Shadd State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Grand + C1558 279 Project Owner: C1558 279 Project Owner: C1558 279 Project Owner: City: CAPISDAD State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Grand + City: CAPISDAD State: NM Zip: 88220 Phone #: PRESERV SAMPLING BH01 0 1 BH02 0 1 BH03 0 1 BH03 0 1 BH04 0 1 BH05 0 1 BH05 0 1 BH06 0 1 BH07 0 1 BH08 0 1 BH09 0 1	Sample I.D. Sampl	110 @ 2' 88 8 12 12	BH08@2:
Shadd State: NM Zip: 88220 Attn: Amy Ruth 9-854-0852 Fax #: Address: 3104 E. Gyenne #: City: Carushad State: NM Zip: 88220 Attn: Amy Ruth 9-854 Fax #: City: Carushad State: NM Zip: 88220 Phone #: Pax #: Fax #: Fa	Shad State: NM Zip: 88220 Attn: Amy Ruth 94-854-0852 Fax #: Address: 3104 E. Granz #: Address: 3104 E. Granz #: City: Carlsbad State: NM Zip: 88220 State: NM Zip: 88220 Attn: Amy Ruth 94-82.1	Sample I.D. Sampl	106 2 . 2 2 X	BH090 3
State: NM Zip: 88220 Attn: Amy Ruth 94 Address: 3104 E. Grenzy 4 Address: 3104 E. Grenzy 4 Address: 3104 E. Grenzy 5 Attn: Amy Ruth 94 Address: 3104 E. Grenzy 5 Attn: Amy Ruth 94 Address: 3104 E. Grenzy 5 Address: 3104 E. Gren	Shad State: NM Zip: 88220 Attn: Pmy Ruth 9-854-0852 Fax #: Address: 3104 E. Grand + City: Carisbad State: NM Zip: 88220 Attn: Pmy Ruth 9-854 State: NM Zip: 88220 Attn: Pmy Ruth 9-854 State: NM Zip: 88220 Attn: Pmy Ruth 9-852 State: NM Zip: 88220 Attn: Pmy Ruth 9-852 State: NM Zip: 88220 Attn: Pmy Ruth 9-852 State: NM Zip: 88220 Attn: Pmone #: Fax #: Fax #: Fax #: Preserv Sampling State: NM Zip: 88220 Attn: Pmone #: Fax #: Fax #: Preserv Sampling State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Phone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Pmone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Pmone #: Fax #: Soil State: NM Zip: 88220 Attn: Pmone #: Fax #: Fax #: Pmone #: Fax	Sample I.D. Sampl		77 8 4 8 2 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10
X Chlorides + X TPH	X Chlorides + X TPH	X Chlorides X TPH		Out of or reliated to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received By:
State: NM Zip: 88220 Attn: Amy Ruth 9 9-854-0852 Fax #: CIR: CAMBDAD Phone #: CIR: CAMBDAD State: NM Zip: 88220 Attn: Amy Ruth 9 Address: 3104 E. Gyenne 1 CIR: CAMBDAD State: NM Zip: 88220 Phone #: Fax #: Fax #: Fax #: BH01 @ 1' BH02 @ 1' BH03 @ 1' BH03 @ 1' BH03 @ 1' BH04 @ 2' BH06 @ 2' BH06 @ 2' BH06 @ 2' BH07 @ 1' BH09 @ 3' BH09 @ 3	Sample I.D. Sampl	Sample I.D. Sampl	Out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: Vorbal Boost: Vorbal Boost:	Time: 29
State: NM Zip: 88220 Attn: Amy Ruth 99 4854 - 0852 Fax #: Address: 3104 F. Gyenne + 1558 210 Project Owner: City: Can U Dad State: NM Zip: 88220 State: NM Zip: 88220 Phone #: City: Can U Dad State: NM Zip: 88220 State: NM Zip: 88220 State: NM Zip: 88220 State: NM Zip: 88220 Phone #: Fax #: Address: 3104 F. Gyenne + 1558 214 - 103. 8 U T U V Fax #: Address: 3104 F. Gyenne + 1558 214 - 103. 8	State: NM Zip: 88220 Attn: Amy Right Address: 3104 E. City: CAPUSD ACTOR Project Owner: City: Capusd Actor Ci	Sample I.D. ON SERV. SAN ON STAIN WATER ON STAIN WATER SO	Out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated real Time:	Date: Received By:
Sample I.D. Sampl	State: NM Zip: 88220 Attn: Amy Right State: NM Z	Sample I.D. C) OS R C) CRR C) OS TER C) OS TE	Out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated real Time:	Time: 405 MIMMA 10 A COST COST
State: NM Zip: 88220 Attn: Amy Right Shadd State: NM Zip: 88220 Attn: Amy Right Shadd State: NM Zip: 88220 Attn: Amy Right Shadd State: NM Zip: 88220 Attn: Address: 3104 Extra State: NM Zip: 88220 Attn: Address: Address: Address: Address: Address: Address: Address: 3104 Extra State: NM Zip: 88220 Attn: Address: Address	State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Grenze	Sample I.D. OR RESERV. SAMPLING OR SAMPLIN	Out of or related to the performance of services hereunder by Candinal regardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: 24	(Circle One) Observed Temp. °C Sample Condition CHECKED BY: Turnaround Time Cool Intact (Initials)
Sample I.D. Sample Condition Observed I temp. 'C. 'D. Sample Condition Observe	Sample I.D. Illiams I.D. Sample I.D. Illiams I.D. Il	Lab I.D. Sample I.D. CONSTRUCTION CONSTRU	Date: Date:	Sampler - UPS - Bus - Other: Corrected Temp, °C Yes Tes Thermometer ID #419 - Correction Factor 0.8'6
Sample I.D. Sample Condition Turnaround Time Colymater Land Results are in James II. James II.D. Sample Condition Turnaround Time Colymater T	State: NIM Zip: 88220 Atm: AMPLING G-85H-0852 Fax #: Address: 30H E Grand Fax #:	Lab I.D. Sample I.D. GREEN SAMPLING ON SET THE STANDARD SAMPLING	Date: Comparison of related to the performance of sendoes hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Comparison of the claim is based upon any of the above stated reasons or otherwise. Verbal Result: Verbal Result: Verbal Result: Verbal Result: Verbal Result: All Results are ended	† Cardinal cannot accept verbal changes. Please email change to



March 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU BIG SINKS 3-25-30

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 03/12/2024
 Sampling Date:
 03/11/2024

 Reported:
 03/13/2024
 Sampling Type:
 Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

A I J D. ... 711

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 13 0.5' (H241235-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	228	114	200	0.652	QM-07
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 14 0.5' (H241235-02)

RTFY 8021R

B1EX 8021B	mg,	ĸy	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 15 0.5' (H241235-03)

RTFY 8021R

Result								
	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
<0.300	0.300	03/12/2024	ND					
93.7	% 71.5-13	4						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	03/13/2024	ND	416	104	400	3.77	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
<10.0	10.0	03/12/2024	ND					
123 9	% 48.2-13	4						
139 9	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300 93.75 mg/ Result <16.0 mg/ Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 93.7 % 71.5-13 mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 48.2-13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 16 0.5' (H241235-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SS 17 0.5' (H241235-05)

BTEX 8021B

DILX GOZID	11197	- Kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 18 0.5' (H241235-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.15314,-103.86766

mg/kg

Sample ID: SS 19 0.5' (H241235-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 20 0.5' (H241235-08)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.19	110	2.00	5.29	
Toluene*	<0.050	0.050	03/12/2024	ND	2.17	108	2.00	5.47	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.12	106	2.00	5.21	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.18	103	6.00	5.21	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

ma/ka

Sample ID: SS 21 0.5' (H241235-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 22 0.5' (H241235-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 23 0.5' (H241235-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 24 0.5' (H241235-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 25 0.5' (H241235-13)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558279 Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 26 0.5' (H241235-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 03/12/2024
 Sampling Date:
 03/11/2024

 Reported:
 03/13/2024
 Sampling Type:
 Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 27 0.5' (H241235-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	95.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 28 0.5' (H241235-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	102 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 29 0.5' (H241235-17)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 30 0.5' (H241235-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact
Project Number: 03C1558279 Sample Received By: Tamara Oldaker

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 31 0.5' (H241235-19)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	< 0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 03/12/2024 Sampling Date: 03/11/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: PLU BIG SINKS 3-25-30 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558279

Project Location: XTO 32.15314,-103.86766

Sample ID: SS 32 0.5' (H241235-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	228	114	200	0.652	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.357	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

(Initials)

24 hrs

Cool Intact Yes Yes

Observed Temp.

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aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By Relinquished By ervice. In no event shall Cardinal be liable ILEASE NOTE: Liability and Damages malyses. All claims including those for Sampler Name: Project Location: 32 Phone #: 080-854 -0852 Fax #: city: Carlsba Delivered By: (Circle One) Address: 3122 National Project Manager: Ben Company Name: Ensolum, LLC OR LAB USE ONLY Lab I.D. t CM 101 East Marland, Hobbs, NM 88240 Sample I.D. (575) 393-2326 FAX (575) 393-2476 214 Belil Parks 0 Time; OS Project Owner: 3-12-24 State: NN Depth (feet) 3-25 103.80766 HWU 5 -30 Received By: (G)RAB OR (C)OMP Zip: Received By # CONTAINERS 88220 GROUNDWATER Sample Condition
Cool Intact
Yes Yes
No No WASTEWATER MATRIX SOIL OIL SLUDGE P.O. #: OTHER State: NN city: Carlsbar Fax #: Phone #: Address: 3104 E Attn: Amy company: XTO Energy ACID/BASE PRESERV. CHECKEDBY ICE / COOL OTHER BILL TO Zip: 1124 DATE 88220 SAMPLING by client, its subs Treen 13:30 REMARKS: Incident #: nApp2327751376 All Results are emailed. Please provide Email address: 12:50 Turnaround Time: obolille ensolum.com, modelle ensolum.com completion of the applicable つきま Verbal Result: TIME Chlorides □ Yes TPH Standard Rush 1140131001 BTEX D No Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition REQUEST 9

Relinquished By:

Date: 3-1224

Received

Received By

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

0000

Sample Condition
Cool Intact
Yes Yes
No No

CHECKEDBY Initias:

24 hrs

Standard

Bacteria (only) Sample Condition Cool Intact Observed Temp.

Observed Temp, °C Corrected Temp. °C

Yes Yes

meter ID

Cost center : 1140131001

solum.com

Verbal Result: ☐ Yes

ON D

Add'I Phone #:

Relinquished

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		2 of 2
Company Name: Ensolum, LLC	BILL TO	ANALYSIS REQUEST
Project Manager: BEN BENN	P.O. #:	
Address: 3122 National Parks Hww	Company: XTO FINERGY	
City: CQKIS bad state: NM Zip: 88220	Attn: Amy Ruth	
39 - 854 - 0852	Address: 3104 E. Greene, St.	

company: XTO Energy Attn: Army Ruth	
attn: Army Ruth	
Attn: Army Ruth	
Address: 5104 E. Orene St.	
city: Carlsbad	
State: NM Zip: 88220	
Phone #:	
Fax#:	
PRESERV. SAMPLING	
ACID/BASE: ICE / COOL OTHER: DATE	TPH BTEX
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74.02	
11-10	
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SLUDGE SLUDGE	58279 Project Owner: City: CAV Shadd

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/20/2023 10:54:06 AM

JOB DESCRIPTION

PLU BIG SINKS 3-25-30 SDG NUMBER 03C1558279

JOB NUMBER

890-5458-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 10/20/2023 10:54:06 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

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Client: Ensolum
Project/Site: PLU BIG SINKS 3-25-30
Laboratory Job ID: 890-5458-1
SDG: 03C1558279

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Definitions/Glossary

Job ID: 890-5458-1 Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits. 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.

¤ 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**

Duplicate Error Ratio (normalized absolute difference) DER

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)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **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

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Job ID: 890-5458-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5458-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/13/2023 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5458-1), SS02 (890-5458-2), SS03 (890-5458-3), SS04 (890-5458-4), SS05 (890-5458-5), SS06 (890-5458-6), SS07 (890-5458-7), SS08 (890-5458-8), SS09 (890-5458-9), SS010 (890-5458-10), SS011 (890-5458-11) and SS012 (890-5458-12).

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 880-64905 and analytical batch 880-64848 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-5458-1), SS02 (890-5458-2), SS05 (890-5458-5) and SS08 (890-5458-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64848/31), (CCV 880-64848/47) and (CCV 880-64848/58). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-64907 and analytical batch 880-64930 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS09 (890-5458-9), SS010 (890-5458-10), SS011 (890-5458-11), SS012 (890-5458-12), (890-5458-A-9-B MS) and (890-5458-A-9-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64930/31) and (CCV 880-64930/47). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-64907 and analytical batch 880-64930 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.

Method 8015MOD NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-64907 and analytical batch 880-64930 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). Since only an acceptable LCS is

Eurofins Carlsbad 10/20/2023

Case Narrative

Client: Ensolum

Job ID: 890-5458-1 SDG: 03C1558279 Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

required per the method, the data has been qualified and reported.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-64945 and analytical batch 880-64999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS01 Lab Sample ID: 890-5458-1

Date Collected: 10/13/23 12:05 Matrix: Solid Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 12:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			10/18/23 14:36	10/19/23 12:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/18/23 14:36	10/19/23 12:31	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/19/23 12:31	1
Analyte	Result	Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result 81.6	Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 10/18/23 02:54	
Total TPH Method: SW846 8015B NM - Dies	81.6 sel Range Orga	nics (DRO)	RL 49.6 (GC)	mg/Kg	=	<u> </u>	10/18/23 02:54	1
Total TPH Method: SW846 8015B NM - Dies Analyte	81.6 sel Range Orga Result	nics (DRO) Qualifier	RL 49.6 (GC)	mg/Kg	D	Prepared	10/18/23 02:54 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies	81.6 sel Range Orga	nics (DRO) Qualifier	RL 49.6	mg/Kg	=	<u> </u>	10/18/23 02:54	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	81.6 sel Range Orga Result	nics (DRO) Qualifier	RL 49.6 (GC)	mg/Kg	=	Prepared	10/18/23 02:54 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	81.6 sel Range Orga Result <49.6	nics (DRO) Qualifier	RL 49.6 (GC) RL 49.6	mg/Kg Unit mg/Kg	=	Prepared 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	81.6 sel Range Orga Result <49.6 81.6	nics (DRO) Qualifier U	RL 49.6 (GC) RL 49.6 49.6	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 10/17/23 15:26 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54	1 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)	81.6 sel Range Orga Result <49.6 81.6 <49.6	nics (DRO) Qualifier U	RL 49.6 (GC) RL 49.6 49.6	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26	Analyzed 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54	1 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	81.6 sel Range Orga Result <49.6 81.6 449.6 %Recovery	unics (DRO) Qualifier U	RL 49.6 (GC) RL 49.6 49.6 49.6 Limits	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared	Analyzed 10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54 Analyzed	Dil Fac
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	81.6 sel Range Orga Result <49.6 81.6 449.6 %Recovery 136 115	U Qualifier U Qualifier S1+	RL 49.6 (GC) RL 49.6 49.6 49.6 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54 Analyzed 10/18/23 02:54	Dil Fac 1 1 Dil Fac 1 Dil Fac
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	81.6 sel Range Orga Result <49.6 81.6 49.6 %Recovery 136 115 Chromatograp	U Qualifier U Qualifier S1+	RL 49.6 (GC) RL 49.6 49.6 49.6 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared 10/17/23 15:26	10/18/23 02:54 Analyzed 10/18/23 02:54 10/18/23 02:54 10/18/23 02:54 Analyzed 10/18/23 02:54	1

Client Sample ID: SS02 Lab Sample ID: 890-5458-2

Date Collected: 10/13/23 12:10 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/19/23 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			10/19/23 13:06	10/19/23 23:38	1

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Project/Site: PLU BIG SINKS 3-25-30

Client: Ensolum

Job ID: 890-5458-1

SDG: 03C1558279

Lab Sample ID: 890-5458-2

Matrix: Solid

Date Collected: 10/13/23 12:10 Date Received: 10/13/23 15:53 Sample Depth: .05'

Client Sample ID: SS02

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)
momound official collins	Tolumo Organic	· compounds	(/	(Oontiniada)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	106	70 - 130	10/19/23 13:06	10/19/23 23:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			10/19/23 23:38	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	370	50.5	mg/Kg			10/18/23 03:17	1

Method: SW846 8015B	NM - Diesel Range	Organice (וחפחי	(GC)
Michiga. Offord of Ide	THIN - DIGGCI ITALING	o Organico (DITO,	(0 0)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	98.7	50.5	mg/Kg		10/17/23 15:26	10/18/23 03:17	1
Diesel Range Organics (Over C10-C28)	271	50.5	mg/Kg		10/17/23 15:26	10/18/23 03:17	1
Oll Range Organics (Over C28-C36)	<50.5 U	50.5	mg/Kg		10/17/23 15:26	10/18/23 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyz	ed Dil Fac
1-Chlorooctane	131	S1+	70 - 130	10/17/23 1	5:26 10/18/23	03:17 1
o-Terphenyl	108		70 - 130	10/17/23 1	5:26 10/18/23	03:17 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29600	248	mg/Kg			10/18/23 15:06	50

Lab Sample ID: 890-5458-3 **Client Sample ID: SS03**

Date Collected: 10/13/23 10:45 Date Received: 10/13/23 15:53

Sample Depth: .05'

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Wethou. Syvo40 002 ID - Volati	ne Organic Comp	ounus (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59	1
Toluene	< 0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/19/23 13:06	10/19/23 23:59	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		10/19/23 13:06	10/19/23 23:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/19/23 13:06	10/19/23 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)			70 130			10/10/23 13:06	10/10/23 23:50	

Surrogate	%Recovery Quality	er Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	86	70 - 130	10/19/23 13:06	10/19/23 23:59	1
1,4-Difluorobenzene (Surr)	92	70 - 130	10/19/23 13:06	10/19/23 23:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			10/19/23 23:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			10/18/23 03:40	1

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Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS03

Lab Sample ID: 890-5458-3 Date Collected: 10/13/23 10:45 Matrix: Solid Date Received: 10/13/23 15:53

Sample Depth: .05'

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	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 03:40	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 03:40	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/17/23 15:26	10/18/23 03:40	1
o-Terphenyl	84		70 - 130			10/17/23 15:26	10/18/23 03:40	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16100		99.8	mg/Kg			10/18/23 15:12	20

Client Sample ID: SS04 Lab Sample ID: 890-5458-4 Date Collected: 10/13/23 10:50 Matrix: Solid

Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/19/23 13:06	10/20/23 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			10/19/23 13:06	10/20/23 00:19	1
1,4-Difluorobenzene (Surr)	75		70 - 130			10/19/23 13:06	10/20/23 00:19	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/20/23 00:19	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			10/18/23 04:03	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 04:03	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 04:03	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		10/17/23 15:26	10/18/23 04:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			10/17/23 15:26	10/18/23 04:03	1

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS04 Lab Sample ID: 890-5458-4 Matrix: Solid

Date Collected: 10/13/23 10:50 Date Received: 10/13/23 15:53

Sample Depth: .05'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	7430	50.4	mg/Kg			10/18/23 15:17	10

Client Sample ID: SS05 Lab Sample ID: 890-5458-5

Date Collected: 10/13/23 10:55 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/19/23 13:06	10/20/23 00:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/19/23 13:06	10/20/23 00:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/19/23 13:06	10/20/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			10/19/23 13:06	10/20/23 00:40	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/19/23 13:06	10/20/23 00:40	1

Method: TAL SOP Total BTEX - Total	al BIEA Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			10/20/23 00:40	1
_							

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5 U	49.5	mg/Kg			10/18/23 04:26	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		10/17/23 15:26	10/18/23 04:26	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		10/17/23 15:26	10/18/23 04:26	1
Oll Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		10/17/23 15:26	10/18/23 04:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130			10/17/23 15:26	10/18/23 04:26	1
o-Terphenyl	111		70 - 130			10/17/23 15:26	10/18/23 04:26	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Solo	uble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11800	99.6	mg/Kg			10/18/23 15:23	20

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Client: Ensolum

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS06 Lab Sample ID: 890-5458-6

Date Collected: 10/13/23 11:00 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/19/23 13:06	10/20/23 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/19/23 13:06	10/20/23 01:00	1
1,4-Difluorobenzene (Surr)	80		70 - 130			10/19/23 13:06	10/20/23 01:00	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (CC)					
			•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/18/23 04:48	Dil Fac
Analyte Total TPH	Result <49.7	Qualifier U	49.7		<u>D</u>	Prepared		
Analyte	Result <49.7	Qualifier U	49.7		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7	Qualifier Unics (DRO) Qualifier	RL 49.7	mg/Kg		<u> </u>	10/18/23 04:48	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.7 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.7 (GC)	mg/Kg		Prepared	10/18/23 04:48 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.7	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26	10/18/23 04:48 Analyzed 10/18/23 04:48	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26	10/18/23 04:48 Analyzed 10/18/23 04:48 10/18/23 04:48	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26	Analyzed 10/18/23 04:48 10/18/23 04:48 10/18/23 04:48 10/18/23 04:48	Dil Face 1 1 1 Dil Face
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 <49.7	Qualifier U nics (DRO) Qualifier U U	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared	Analyzed 10/18/23 04:48 Analyzed 10/18/23 04:48 10/18/23 04:48 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 <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared 10/17/23 15:26	10/18/23 04:48 Analyzed 10/18/23 04:48 10/18/23 04:48 10/18/23 04:48 Analyzed 10/18/23 04:48	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 <49.7	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 10/17/23 15:26 10/17/23 15:26 10/17/23 15:26 Prepared 10/17/23 15:26	10/18/23 04:48 Analyzed 10/18/23 04:48 10/18/23 04:48 10/18/23 04:48 Analyzed 10/18/23 04:48	1 1 1 Dil Fac 1

Client Sample ID: SS07 Lab Sample ID: 890-5458-7

Date Collected: 10/13/23 11:05 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/19/23 13:06	10/20/23 01:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			10/19/23 13:06	10/20/23 01:21	1

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Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS07 Lab Sample ID: 890-5458-7 **Matrix: Solid**

Date Collected: 10/13/23 11:05 Date Received: 10/13/23 15:53

Sample Depth: .05'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	79	70 - 130	10/19/23 13:06	10/20/23 01:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			10/20/23 01:21	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3 U	50.3	mg/Kg			10/18/23 05:09	1

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

		(=::=)	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		10/17/23 15:26	10/18/23 05:09	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		10/17/23 15:26	10/18/23 05:09	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		10/17/23 15:26	10/18/23 05:09	1
Surrogate	%Recovery	Qualifier	l imite			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127	70 - 130	10/17/23 15:26	10/18/23 05:09	1
o-Terphenyl	108	70 - 130	10/17/23 15:26	10/18/23 05:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19600	99.2	mg/Kg			10/18/23 15:45	20

Client Sample ID: SS08 Lab Sample ID: 890-5458-8

Date Collected: 10/13/23 11:10 Date Received: 10/13/23 15:53

Sample Depth: .05'

ı	Method: SW846 8021B	Maladila Ossasia	O = ==== d= (OO)

	Qualifier	RL	Unit				
			OIIIL	D	Prepared	Analyzed	Dil Fac
<0.00198	U	0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
0.00357		0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
<0.00198	U	0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
<0.00396	U	0.00396	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
<0.00198	U	0.00198	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
<0.00396	U	0.00396	mg/Kg		10/18/23 14:36	10/19/23 17:25	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
89		70 - 130			10/18/23 14:36	10/19/23 17:25	1
	0.00357 <0.00198 <0.00396 <0.00198 <0.00396	<0.00198 U <0.00396 U <0.00198 U <0.00396 U %Recovery Qualifier	0.00357 0.00198 <0.00198	0.00357 0.00198 mg/Kg <0.00198	0.00357 0.00198 mg/Kg <0.00198	0.00357 0.00198 mg/Kg 10/18/23 14:36 <0.00198	0.00357 0.00198 mg/Kg 10/18/23 14:36 10/19/23 17:25 <0.00198

		·			
4-Bromofluorobenzene (Surr)	89	70 - 13	0 10/18/23 14:36	10/19/23 17:25	1
1,4-Difluorobenzene (Surr)	100	70 - 13	0 10/18/23 14:36	10/19/23 17:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	ma/Ka			10/19/23 17:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			10/18/23 05:31	1

Eurofins Carlsbad

Lab Sample ID: 890-5458-8

Client: Ensolum

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS08

Date Collected: 10/13/23 11:10 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U	50.4	mg/Kg		10/17/23 15:26	10/18/23 05:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.4	U	50.4	mg/Kg		10/17/23 15:26	10/18/23 05:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		10/17/23 15:26	10/18/23 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			10/17/23 15:26	10/18/23 05:31	1
o-Terphenyl	121		70 - 130			10/17/23 15:26	10/18/23 05:31	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
	Deculé	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifiei	112	Oilit		opai oa	7 illuly 200	Dii i uo

Client Sample ID: SS09 Lab Sample ID: 890-5458-9 Date Collected: 10/13/23 12:15 Matrix: Solid

Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/18/23 14:36	10/19/23 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			10/18/23 14:36	10/19/23 17:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130			10/18/23 14:36	10/19/23 17:45	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/19/23 17:45	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			10/18/23 21:09	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		10/17/23 16:16	10/18/23 21:09	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1 *+	49.6	mg/Kg		10/17/23 16:16	10/18/23 21:09	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		10/17/23 16:16	10/18/23 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130			10/17/23 16:16	10/18/23 21:09	1

Lab Sample ID: 890-5458-9

Job ID: 890-5458-1

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS09

Date Collected: 10/13/23 12:15 Date Received: 10/13/23 15:53

Sample Depth: .05'

١	Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble	•					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	380		5.00	mg/Kg			10/18/23 15:57	1

Client Sample ID: SS010 Lab Sample ID: 890-5458-10 Matrix: Solid

Date Collected: 10/13/23 12:20 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:06	
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	97		70 - 130			10/18/23 14:36	10/19/23 18:06	
1,4-Difluorobenzene (Surr)	100		70 - 130			10/18/23 14:36	10/19/23 18:06	
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/19/23 18:06	
Analyte Total TPH		Qualifier U	RL 50.5	Unit mg/Kg	D	Prepared	Analyzed 10/18/23 22:13	Dil Fa
Total IPH	<00.5	U	50.5	mg/Kg			10/18/23 22:13	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		10/17/23 16:16	10/18/23 22:13	
Diesel Range Organics (Over C10-C28)	<50.5	U *+	50.5	mg/Kg		10/17/23 16:16	10/18/23 22:13	
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		10/17/23 16:16	10/18/23 22:13	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	154	S1+	70 - 130			10/17/23 16:16	10/18/23 22:13	
o-Terphenyl	126		70 - 130			10/17/23 16:16	10/18/23 22:13	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5250		49.7	mg/Kg			10/18/23 16:02	10

Lab Sample ID: 890-5458-11

Client: Ensolum

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Client Sample ID: SS011

Date Collected: 10/13/23 12:25 Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/18/23 14:36	10/19/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/18/23 14:36	10/19/23 18:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/18/23 14:36	10/19/23 18:26	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/19/23 18:26	1
Method: SW846 8015 NM - Dies	•		•					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/18/23 22:34	
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 esel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9 esel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			10/18/23 22:34	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics	Result <49.9 esel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	10/18/23 22:34 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 esel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U U *+	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dic Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 esel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U *+	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16	10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 Pesel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Qualifier U nics (DRO) Qualifier U U *+	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16	Analyzed 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34	Dil Face 1 Dil Face 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 Pesel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Qualifier U nics (DRO) Qualifier U U *+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared	Analyzed 10/18/23 22:34 Analyzed 10/18/23 22:34 10/18/23 22:34 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U*+ U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	Analyzed 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 Analyzed 10/18/23 22:34	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U*+ U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	Analyzed 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 10/18/23 22:34 Analyzed 10/18/23 22:34	Dil Fac Dil Fac Dil Fac Dil Fac Dil Fac Dil Fac Dil Fac

Client Sample ID: SS012

Date Collected: 10/13/23 12:30

Date Received: 10/13/23 15:53

Sample Depth: .05'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/18/23 14:36	10/19/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			10/18/23 14:36	10/19/23 18:47	1

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Lab Sample ID: 890-5458-12

Client Sample Results

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Client Sample ID: SS012 Lab Sample ID: 890-5458-12

Date Collected: 10/13/23 12:30 Matrix: Solid
Date Received: 10/13/23 15:53

Sample Depth: .05'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	101		70 - 130			10/18/23 14:36	10/19/23 18:47	-
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/19/23 18:47	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.6	U	49.6	mg/Kg			10/18/23 22:55	
			DI DI	l Inié	_ n	Droporod	Analyzad	Dil Ea
			DI	Unit	_ n	Dronarod	Analyzod	Dil Ea
Gasoline Range Organics	Kesuit <49.6	Qualifier U	49.6	Unit mg/Kg	<u>D</u>	Prepared 10/17/23 16:16	Analyzed 10/18/23 22:55	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U			<u>D</u>			Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6	mg/Kg	<u>D</u>	10/17/23 16:16	10/18/23 22:55	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.6 <49.6	U *+	49.6	mg/Kg	<u> </u>	10/17/23 16:16 10/17/23 16:16	10/18/23 22:55 10/18/23 22:55	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.6 <49.6 <49.6	U *+	49.6 49.6 49.6	mg/Kg	<u>D</u>	10/17/23 16:16 10/17/23 16:16 10/17/23 16:16	10/18/23 22:55 10/18/23 22:55 10/18/23 22:55	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.6 <49.6 <49.6 %Recovery	U U*+ U Qualifier	49.6 49.6 49.6 Limits	mg/Kg	<u>D</u>	10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared	10/18/23 22:55 10/18/23 22:55 10/18/23 22:55 Analyzed	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	<49.6 <49.6 <49.6 %Recovery 139 116 Chromatograp	U *+ U Qualifier S1+ Ohy - Solubl	49.6 49.6 49.6 — Limits 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	_ =	10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16 10/17/23 16:16	10/18/23 22:55 10/18/23 22:55 10/18/23 22:55 Analyzed 10/18/23 22:55 10/18/23 22:55	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.6 <49.6 <49.6 %Recovery 139 116 Chromatograp	U *+ U Qualifier S1+	49.6 49.6 49.6 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	10/17/23 16:16 10/17/23 16:16 10/17/23 16:16 Prepared 10/17/23 16:16	10/18/23 22:55 10/18/23 22:55 10/18/23 22:55 Analyzed 10/18/23 22:55	

Surrogate Summary

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5458-1	SS01	94	94	
890-5458-1 MS	SS01	102	96	
890-5458-1 MSD	SS01	100	89	
890-5458-2	SS02	92	106	
890-5458-3	SS03	86	92	
890-5458-4	SS04	95	75	
890-5458-5	SS05	99	79	
890-5458-6	SS06	97	80	
890-5458-7	SS07	98	79	
890-5458-8	SS08	89	100	
890-5458-9	SS09	85	103	
890-5458-10	SS010	97	100	
890-5458-11	SS011	101	107	
890-5458-12	SS012	97	101	
890-5473-A-1-E MS	Matrix Spike	123	104	
890-5473-A-1-F MSD	Matrix Spike Duplicate	125	115	
LCS 880-64991/1-A	Lab Control Sample	114	108	
LCS 880-65043/1-A	Lab Control Sample	126	102	
LCSD 880-64991/2-A	Lab Control Sample Dup	114	107	
LCSD 880-65043/2-A	Lab Control Sample Dup	127	109	
MB 880-64991/5-A	Method Blank	108	122	
MB 880-64998/5-A	Method Blank	77	91	
MB 880-65043/5-A	Method Blank	80	86	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-34522-A-3-D MS	Matrix Spike	127	96	
380-34522-A-3-E MSD	Matrix Spike Duplicate	126	94	
390-5458-1	SS01	136 S1+	115	
390-5458-2	SS02	131 S1+	108	
390-5458-3	SS03	101	84	
390-5458-4	SS04	127	105	
390-5458-5	SS05	133 S1+	111	
390-5458-6	SS06	129	108	
390-5458-7	SS07	127	108	
390-5458-8	SS08	142 S1+	121	
90-5458-9	SS09	163 S1+	136 S1+	
90-5458-9 MS	SS09	153 S1+	111	
90-5458-9 MSD	SS09	155 S1+	109	
90-5458-10	SS010	154 S1+	126	
390-5458-11	SS011	145 S1+	121	
390-5458-12	SS012	139 S1+	116	

OTPH = o-Terphenyl

Surrogate Summary

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

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)	
LCS 880-64905/2-A	Lab Control Sample	95	89	
LCS 880-64907/2-A	Lab Control Sample	115	109	
LCSD 880-64905/3-A	Lab Control Sample Dup	87	86	
LCSD 880-64907/3-A	Lab Control Sample Dup	115	106	
MB 880-64905/1-A	Method Blank	171 S1+	147 S1+	
MB 880-64907/1-A	Method Blank	194 S1+	164 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				

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 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-64991/5-A

Matrix: Solid Analysis Batch: 65026 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64991

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/23 14:36	10/19/23 12:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/23 14:36	10/19/23 12:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/18/23 14	:36 10/19/23 12:02	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10/18/23 14	:36 10/19/23 12:02	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 64991

Prep Type: Total/NA

Prep Batch: 64991

Matrix: Solid

Lab Sample ID: LCS 880-64991/1-A

Analysis Batch: 65026

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	
Toluene	0.100	0.08923		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09020		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.08953		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 65026

Lab Sample ID: LCSD 880-64991/2-A

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1134	mg/Kg		113	70 - 130	3	35
Toluene	0.100	0.09004	mg/Kg		90	70 - 130	1	35
Ethylbenzene	0.100	0.09659	mg/Kg		97	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1952	mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09421	mg/Kg		94	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-5458-1 MS

Matrix: Solid

Analysis Batch: 65026

Client Sample ID: SS01
Prep Type: Total/NA

Prep Batch: 64991

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.09773		mg/Kg	_	98	70 - 130	
Toluene	< 0.00199	U	0.0998	0.07998		mg/Kg		80	70 - 130	

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Job ID: 890-5458-1 SDG: 03C1558279 Project/Site: PLU BIG SINKS 3-25-30

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

Lab Sample ID: 890-5458-1 MS

Analysis Batch: 65026

Client Sample ID: SS01 **Matrix: Solid Prep Type: Total/NA** Prep Batch: 64991

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.07660		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1598		mg/Kg		80	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.08526		mg/Kg		85	70 - 130	

MS MS

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

Lab Sample ID: 890-5458-1 MSD

Matrix: Solid

Analysis Batch: 65026

Client Sample ID: SS01 Prep Type: Total/NA Prep Batch: 64991

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.09229		mg/Kg		93	70 - 130	6	35
Toluene	< 0.00199	U	0.0996	0.07966		mg/Kg		80	70 - 130	0	35
Ethylbenzene	< 0.00199	U	0.0996	0.07767		mg/Kg		78	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1612		mg/Kg		81	70 - 130	1	35
o-Xylene	< 0.00199	U	0.0996	0.08214		mg/Kg		82	70 - 130	4	35

MSD MSD

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	89	70 - 130

Lab Sample ID: MB 880-64998/5-A

Matrix: Solid

Analysis Batch: 65025

Client Sample ID: Method Blank **Prep Type: Total/NA** Prep Batch: 64998

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/23 15:14	10/19/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/23 15:14	10/19/23 11:37	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	70 - 130	10/18/23 15:14	10/19/23 11:37	1
1,4-Difluorobenzene (Surr)	91	70 - 130	10/18/23 15:14	10/19/23 11:37	1

Lab Sample ID: MB 880-65043/5-A

Matrix: Solid

Analysis Batch: 65025

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

Prep Batch: 65043

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/19/23 13:06	10/19/23 22:15	1

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

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

Lab Sample ID: MB 880-65043/5-A

Lab Sample ID: LCS 880-65043/1-A

Lab Sample ID: LCSD 880-65043/2-A

Matrix: Solid

Analysis Batch: 65025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65043

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 13:06	10/19/23 22:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/19/23 13:06	10/19/23 22:15	1

MD MD

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	10/19/23 13:06	10/19/23 22:15	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/19/23 13:06	10/19/23 22:15	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 65025** Prep Batch: 65043

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09647	-	mg/Kg		96	70 - 130	
Toluene	0.100	0.09660		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2215		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1225		mg/Kg		123	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	126	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 65043

Analysis Batch: 65025

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1038		mg/Kg		104	70 - 130	7	35	
Toluene	0.100	0.1051		mg/Kg		105	70 - 130	8	35	
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	9	35	
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130	8	35	
o-Xvlene	0.100	0.1260		ma/Ka		126	70 - 130	3	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1.4-Difluorobenzene (Surr)	109	70 ₋ 130

Lab Sample ID: 890-5473-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 65025**

Prep Batch: 65043

,										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09411		mg/Kg		94	70 - 130	
Toluene	<0.00200	U	0.0996	0.09123		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00200	U	0.0996	0.09820		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2086		mg/Kg		105	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.1075		mg/Kg		108	70 - 130	

Project/Site: PLU BIG SINKS 3-25-30

Client: Ensolum

Job ID: 890-5458-1 SDG: 03C1558279

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: 890-5473-A-1-E MS

Lab Sample ID: 890-5473-A-1-F MSD

Matrix: Solid

Analysis Batch: 65025

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 65043

MS MS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 123 70 - 130 1,4-Difluorobenzene (Surr) 104 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 65043

Matrix: Solid Analysis Batch: 65025 Sample Sample Spike MSD MSD %Rec

RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit U 0.100 0.09236 92 70 - 1302 35 Benzene <0.00200 mg/Kg Toluene <0.00200 U 0.100 0.08705 mg/Kg 87 70 - 130 5 35 <0.00200 U 0.100 0.09523 mg/Kg 95 70 - 130 35 Ethylbenzene 3 m-Xylene & p-Xylene <0.00399 U 0.200 0.2005 mg/Kg 100 70 - 130 35 o-Xylene <0.00200 U 0.100 0.1035 mg/Kg 103 70 - 130 35

MSD MSD

Qualifier Surrogate %Recovery Limits 4-Bromofluorobenzene (Surr) 125 70 - 130 1,4-Difluorobenzene (Surr) 115 70 - 130

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

Lab Sample ID: MB 880-64905/1-A

Matrix: Solid

Analysis Batch: 64848

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64905

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 10/17/23 15:26 10/17/23 20:10 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 10/17/23 15:26 10/17/23 20:10 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 10/17/23 15:26 10/17/23 20:10 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 171 S1+ 70 130 10/17/23 15:26 10/17/23 20:10 o-Terphenyl 147 S1+ 10/17/23 15:26 10/17/23 20:10 70 - 130

Lab Sample ID: LCS 880-64905/2-A

Released to Imaging: 3/29/2024 11:31:13 AM

Matrix: Solid

Analysis Batch: 64848

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64905

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 107 Gasoline Range Organics 1000 1073 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 964.6 mg/Kg 96 70 - 130

C10-C28)

LCS LCS Qualifier Surrogate %Recovery Limits 1-Chlorooctane 95 70 - 130 89 o-Terphenyl 70 - 130



Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30

SDG: 03C1558279

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

Lab Sample ID: LCSD 880-64905/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 64848 Prep Batch: 64905 Cnika LCCD LCCD

	Spike	LUGD	LUSD				/onec		KFD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1033		mg/Kg		103	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	926.6		mg/Kg		93	70 - 130	4	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 87 o-Terphenyl 86 70 - 130

Lab Sample ID: 880-34522-A-3-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 64848

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.5	U	994	959.3		mg/Kg		93	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	58.0		994	1151		mg/Kg		110	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 127 70 - 130 o-Terphenyl 96 70 - 130

Lab Sample ID: 880-34522-A-3-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 64848

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.5	U	994	939.8		mg/Kg		91	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	58.0		994	1133		mg/Kg		108	70 - 130	2	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: MB 880-64907/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 64930

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/17/23 16:16	10/18/23 20:05	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		10/17/23 16:16	10/18/23 20:05	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/17/23 16:16	10/18/23 20:05	1

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 64905

Prep Batch: 64905

Prep Type: Total/NA Prep Batch: 64907

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1 SDG: 03C1558279

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

Lab Sample ID: MB 880-64907/1-A

Lab Sample ID: LCSD 880-64907/3-A

Matrix: Solid

Analysis Batch: 64930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64907

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130		10/17/23 16:16	10/18/23 20:05	1
o-Terphenyl	164	S1+	70 - 130	1	10/17/23 16:16	10/18/23 20:05	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-64907/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 64930 Prep Batch: 64907

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 791.7 79 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1239 mg/Kg 124 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	109		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 64907

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 894.2 mg/Kg 89 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1391 *+ mg/Kg 139 70 - 130 12 20 C10-C28)

Matrix: Solid

Analysis Batch: 64930

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	115	70 - 130
o-Terphenyl	106	70 - 130

Lab Sample ID: 890-5458-9 MS Client Sample ID: SS09 **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 64930 Prep Batch: 64907 Sample Sample Spike MS MS %Rec

	Gampio	Gampio	Opino						701100	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.6	U	1010	1208		mg/Kg		118	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.6	U F1 *+	1010	1656	F1	mg/Kg		162	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	111		70 - 130

Client: Ensolum Job ID: 890-5458-1 SDG: 03C1558279 Project/Site: PLU BIG SINKS 3-25-30

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

Lab Sample ID: 890-5458-9 MSD)			Client Sample ID: SS09
Matrix: Solid				Prep Type: Total/NA
Analysis Batch: 64930				Prep Batch: 64907
	Sample Sample	Snika	MSD MSD	%Pac PPD

	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	<49.6	U	1010	1269		mg/Kg		124	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1 *+	1010	1662	F1	mg/Kg		162	70 - 130	0	20

	INISD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	109		70 - 130

MR MR

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64945/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 64999

	1412	11.10						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/18/23 14:32	1

Lab Sample ID: LCS 880-64945/2-A	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Soluble
Analysis Retaly 64000	

Analysis Batch: 64999

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	246.7		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-64945/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Soluble

Analysis Batch: 64999

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	247.2		mg/Kg	_	99	90 - 110	0	20	

Lab Sample ID: 890-5458-1 MS **Client Sample ID: SS01** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 64999

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	18400		5000	23390		ma/Ka		99	90 110	

Lab Sample ID: 890-5458-1 MSD **Client Sample ID: SS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	18400		5000	23400	-	mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: Ensolum Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30

SDG: 03C1558279

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5458-11 MS **Client Sample ID: SS011 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Chloride 1430 F1 1250 2499 F1 mg/Kg 86 90 - 110

Lab Sample ID: 890-5458-11 MSD Client Sample ID: SS011 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 64999

Sample Sample Spike MSD MSD %Rec RPD

Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 1430 F1 1250 2505 F1 mg/Kg 86 90 - 110 0 20

Client: Ensolum

Job ID: 890-5458-1 Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

GC VOA

Prep Batch: 64991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	5035	
890-5458-8	SS08	Total/NA	Solid	5035	
890-5458-9	SS09	Total/NA	Solid	5035	
890-5458-10	SS010	Total/NA	Solid	5035	
890-5458-11	SS011	Total/NA	Solid	5035	
890-5458-12	SS012	Total/NA	Solid	5035	
MB 880-64991/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5458-1 MS	SS01	Total/NA	Solid	5035	
890-5458-1 MSD	SS01	Total/NA	Solid	5035	

Prep Batch: 64998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64998/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 65025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-2	SS02	Total/NA	Solid	8021B	65043
890-5458-3	SS03	Total/NA	Solid	8021B	65043
890-5458-4	SS04	Total/NA	Solid	8021B	65043
890-5458-5	SS05	Total/NA	Solid	8021B	65043
890-5458-6	SS06	Total/NA	Solid	8021B	65043
890-5458-7	SS07	Total/NA	Solid	8021B	65043
MB 880-64998/5-A	Method Blank	Total/NA	Solid	8021B	64998
MB 880-65043/5-A	Method Blank	Total/NA	Solid	8021B	65043
LCS 880-65043/1-A	Lab Control Sample	Total/NA	Solid	8021B	65043
LCSD 880-65043/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65043
890-5473-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	65043
890-5473-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65043

Analysis Batch: 65026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8021B	64991
890-5458-8	SS08	Total/NA	Solid	8021B	6499
890-5458-9	SS09	Total/NA	Solid	8021B	6499
890-5458-10	SS010	Total/NA	Solid	8021B	64991
890-5458-11	SS011	Total/NA	Solid	8021B	6499
890-5458-12	SS012	Total/NA	Solid	8021B	6499
MB 880-64991/5-A	Method Blank	Total/NA	Solid	8021B	6499
LCS 880-64991/1-A	Lab Control Sample	Total/NA	Solid	8021B	6499
LCSD 880-64991/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64991
890-5458-1 MS	SS01	Total/NA	Solid	8021B	6499
890-5458-1 MSD	SS01	Total/NA	Solid	8021B	64991

Prep Batch: 65043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-2	SS02	Total/NA	Solid	5035	
890-5458-3	SS03	Total/NA	Solid	5035	
890-5458-4	SS04	Total/NA	Solid	5035	
890-5458-5	SS05	Total/NA	Solid	5035	

 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

GC VOA (Continued)

Prep Batch: 65043 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-6	SS06	Total/NA	Solid	5035	
890-5458-7	SS07	Total/NA	Solid	5035	
MB 880-65043/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65043/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65043/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5473-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-5473-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 65198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	Total BTEX	
890-5458-2	SS02	Total/NA	Solid	Total BTEX	
890-5458-3	SS03	Total/NA	Solid	Total BTEX	
890-5458-4	SS04	Total/NA	Solid	Total BTEX	
890-5458-5	SS05	Total/NA	Solid	Total BTEX	
890-5458-6	SS06	Total/NA	Solid	Total BTEX	
890-5458-7	SS07	Total/NA	Solid	Total BTEX	
890-5458-8	SS08	Total/NA	Solid	Total BTEX	
890-5458-9	SS09	Total/NA	Solid	Total BTEX	
890-5458-10	SS010	Total/NA	Solid	Total BTEX	
890-5458-11	SS011	Total/NA	Solid	Total BTEX	
890-5458-12	SS012	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 64848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8015B NM	64905
890-5458-2	SS02	Total/NA	Solid	8015B NM	64905
890-5458-3	SS03	Total/NA	Solid	8015B NM	64905
890-5458-4	SS04	Total/NA	Solid	8015B NM	64905
890-5458-5	SS05	Total/NA	Solid	8015B NM	64905
890-5458-6	SS06	Total/NA	Solid	8015B NM	64905
890-5458-7	SS07	Total/NA	Solid	8015B NM	64905
890-5458-8	SS08	Total/NA	Solid	8015B NM	64905
MB 880-64905/1-A	Method Blank	Total/NA	Solid	8015B NM	64905
LCS 880-64905/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64905
LCSD 880-64905/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64905
880-34522-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	64905
880-34522-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	64905

Prep Batch: 64905

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8015NM Prep	
890-5458-2	SS02	Total/NA	Solid	8015NM Prep	
890-5458-3	SS03	Total/NA	Solid	8015NM Prep	
890-5458-4	SS04	Total/NA	Solid	8015NM Prep	
890-5458-5	SS05	Total/NA	Solid	8015NM Prep	
890-5458-6	SS06	Total/NA	Solid	8015NM Prep	
890-5458-7	SS07	Total/NA	Solid	8015NM Prep	
890-5458-8	SS08	Total/NA	Solid	8015NM Prep	

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 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

GC Semi VOA (Continued)

Prep Batch: 64905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-64905/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64905/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64905/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34522-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34522-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 64907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-9	SS09	Total/NA	Solid	8015NM Prep	
890-5458-10	SS010	Total/NA	Solid	8015NM Prep	
890-5458-11	SS011	Total/NA	Solid	8015NM Prep	
890-5458-12	SS012	Total/NA	Solid	8015NM Prep	
MB 880-64907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5458-9 MS	SS09	Total/NA	Solid	8015NM Prep	
890-5458-9 MSD	SS09	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-9	SS09	Total/NA	Solid	8015B NM	64907
890-5458-10	SS010	Total/NA	Solid	8015B NM	64907
890-5458-11	SS011	Total/NA	Solid	8015B NM	64907
890-5458-12	SS012	Total/NA	Solid	8015B NM	64907
MB 880-64907/1-A	Method Blank	Total/NA	Solid	8015B NM	64907
LCS 880-64907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64907
LCSD 880-64907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64907
890-5458-9 MS	SS09	Total/NA	Solid	8015B NM	64907
890-5458-9 MSD	SS09	Total/NA	Solid	8015B NM	64907

Analysis Batch: 64988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Total/NA	Solid	8015 NM	
890-5458-2	SS02	Total/NA	Solid	8015 NM	
890-5458-3	SS03	Total/NA	Solid	8015 NM	
890-5458-4	SS04	Total/NA	Solid	8015 NM	
890-5458-5	SS05	Total/NA	Solid	8015 NM	
890-5458-6	SS06	Total/NA	Solid	8015 NM	
890-5458-7	SS07	Total/NA	Solid	8015 NM	
890-5458-8	SS08	Total/NA	Solid	8015 NM	
890-5458-9	SS09	Total/NA	Solid	8015 NM	
890-5458-10	SS010	Total/NA	Solid	8015 NM	
890-5458-11	SS011	Total/NA	Solid	8015 NM	
890-5458-12	SS012	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Soluble	Solid	DI Leach	
890-5458-2	SS02	Soluble	Solid	DI Leach	

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 Client: Ensolum
 Job ID: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

HPLC/IC (Continued)

Leach Batch: 64945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-3	SS03	Soluble	Solid	DI Leach	
890-5458-4	SS04	Soluble	Solid	DI Leach	
890-5458-5	SS05	Soluble	Solid	DI Leach	
890-5458-6	SS06	Soluble	Solid	DI Leach	
890-5458-7	SS07	Soluble	Solid	DI Leach	
890-5458-8	SS08	Soluble	Solid	DI Leach	
890-5458-9	SS09	Soluble	Solid	DI Leach	
890-5458-10	SS010	Soluble	Solid	DI Leach	
890-5458-11	SS011	Soluble	Solid	DI Leach	
890-5458-12	SS012	Soluble	Solid	DI Leach	
MB 880-64945/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64945/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64945/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5458-1 MS	SS01	Soluble	Solid	DI Leach	
890-5458-1 MSD	SS01	Soluble	Solid	DI Leach	
890-5458-11 MS	SS011	Soluble	Solid	DI Leach	
890-5458-11 MSD	SS011	Soluble	Solid	DI Leach	

Analysis Batch: 64999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5458-1	SS01	Soluble	Solid	300.0	64945
890-5458-2	SS02	Soluble	Solid	300.0	64945
890-5458-3	SS03	Soluble	Solid	300.0	64945
890-5458-4	SS04	Soluble	Solid	300.0	64945
890-5458-5	SS05	Soluble	Solid	300.0	64945
890-5458-6	SS06	Soluble	Solid	300.0	64945
890-5458-7	SS07	Soluble	Solid	300.0	64945
890-5458-8	SS08	Soluble	Solid	300.0	64945
890-5458-9	SS09	Soluble	Solid	300.0	64945
890-5458-10	SS010	Soluble	Solid	300.0	64945
890-5458-11	SS011	Soluble	Solid	300.0	64945
890-5458-12	SS012	Soluble	Solid	300.0	64945
MB 880-64945/1-A	Method Blank	Soluble	Solid	300.0	64945
LCS 880-64945/2-A	Lab Control Sample	Soluble	Solid	300.0	64945
LCSD 880-64945/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64945
890-5458-1 MS	SS01	Soluble	Solid	300.0	64945
890-5458-1 MSD	SS01	Soluble	Solid	300.0	64945
890-5458-11 MS	SS011	Soluble	Solid	300.0	64945
890-5458-11 MSD	SS011	Soluble	Solid	300.0	64945

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Soluble

Analysis

300.0

Job ID: 890-5458-1

Client: Ensolum Project/Site: PLU BIG SINKS 3-25-30 SDG: 03C1558279

Lab Sample ID: 890-5458-1 Client Sample ID: SS01

Date Collected: 10/13/23 12:05 **Matrix: Solid** Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 12:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 12:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 02:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 14:49	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-5458-2

Date Collected: 10/13/23 12:10 **Matrix: Solid** Date Received: 10/13/23 15:53

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 5.01 g Total/NA 5 mL 65043 10/19/23 13:06 EL EET MID Total/NA 8021B **EET MID** Analysis 1 5 mL 5 mL 65025 10/19/23 23:38 MNR Total/NA Total BTEX 65198 10/19/23 23:38 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 64988 10/18/23 03:17 SM **EET MID** Total/NA 64905 8015NM Prep 9.90 g 10 mL 10/17/23 15:26 TKC EET MID Prep Total/NA Analysis 8015B NM 1 uL 1 uL 64848 10/18/23 03:17 SM **EET MID** Soluble Leach DI Leach 5.04 g 50 mL 64945 10/18/23 10:55 SMC **EET MID**

Client Sample ID: SS03 Lab Sample ID: 890-5458-3

50 mL

50 mL

64999

10/18/23 15:06

СН

Date Collected: 10/13/23 10:45 **Matrix: Solid** Date Received: 10/13/23 15:53

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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/19/23 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 23:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 03:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 03:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 15:12	CH	EET MID

Lab Sample ID: 890-5458-4 **Client Sample ID: SS04**

Date Collected: 10/13/23 10:50 **Matrix: Solid** Date Received: 10/13/23 15:53

	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	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 00:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 00:19	SM	EET MID

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EET MID

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10/20/2023

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

Client Sample ID: SS04

Lab Sample ID: 890-5458-4

Matrix: Solid

Date Collected: 10/13/23 10:50 Date Received: 10/13/23 15:53

	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			64988	10/18/23 04:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 04:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 15:17	CH	EET MID

Lab Sample ID: 890-5458-5

Matrix: Solid

Date Collected: 10/13/23 10:55 Date Received: 10/13/23 15:53

Client Sample ID: SS05

	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	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 00:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 04:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 15:23	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-5458-6

Date Collected: 10/13/23 11:00 **Matrix: Solid** Date Received: 10/13/23 15:53

	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	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 01:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 04:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 15:40	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-5458-7 Date Collected: 10/13/23 11:05 **Matrix: Solid**

Date Received: 10/13/23 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	65043	10/19/23 13:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65025	10/20/23 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/20/23 01:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 05:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 05:09	SM	EET MID

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

Client Sample ID: SS07

Date Collected: 10/13/23 11:05 Date Received: 10/13/23 15:53 Lab Sample ID: 890-5458-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	64999	10/18/23 15:45	CH	EET MID

Client Sample ID: SS08 Lab Sample ID: 890-5458-8

Date Collected: 10/13/23 11:10 Date Received: 10/13/23 15:53 **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			5.05 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 17:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 05:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	64905	10/17/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64848	10/18/23 05:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	64999	10/18/23 15:51	CH	EET MID

Client Sample ID: SS09 Lab Sample ID: 890-5458-9

Date Collected: 10/13/23 12:15 Date Received: 10/13/23 15:53 **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			5.01 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 17:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 21:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 21:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64999	10/18/23 15:57	CH	EET MID

Client Sample ID: SS010 Lab Sample ID: 890-5458-10 Date Collected: 10/13/23 12:20

Date Received: 10/13/23 15:53

	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	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 18:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 22:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	64999	10/18/23 16:02	CH	EET MID

Eurofins Carlsbad

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1 SDG: 03C1558279

ah Sample ID: 890 5458 11

Lab Sample ID: 890-5458-11

Matrix: Solid

Date Collected: 10/13/23 12:25 Date Received: 10/13/23 15:53

Client Sample ID: SS011

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	64991	10/18/23 14:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65026	10/19/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65198	10/19/23 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			64988	10/18/23 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	64907	10/17/23 16:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64930	10/18/23 22:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64945	10/18/23 10:55	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	64999	10/18/23 16:08	СН	EET MID

Client Sample ID: SS012

Date Collected: 10/13/23 12:30

Date Received: 10/13/23 15:53

Lab Sample ID: 890-5458-12

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.02 g 5 mL 64991 10/18/23 14:36 MNR EET MID Total/NA 8021B **EET MID** Analysis 1 5 mL 5 mL 65026 10/19/23 18:47 MNR Total/NA Total BTEX 65198 10/19/23 18:47 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 64988 10/18/23 22:55 SM **EET MID** 64907 Total/NA Prep 8015NM Prep 10.08 g 10 mL 10/17/23 16:16 TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 64930 10/18/23 22:55 SM **EET MID** Soluble 10/18/23 10:55 Leach DI Leach 5.02 g 50 mL 64945 SMC **EET MID** Soluble Analysis 300.0 10 50 mL 50 mL 64999 10/18/23 16:25 СН **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: 890-5458-1

 Project/Site: PLU BIG SINKS 3-25-30
 SDG: 03C1558279

Laboratory: Eurofins Midland

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

Authority Progra		am	Identification Number	Expiration Date
Texas	NELAP		T104704400-23-26	06-30-24
0 ,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification. Prep Method	Matrix	Analyte	
8015 NM	1 TOP WOULDE	Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Ensolum

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1 SDG: 03C1558279

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

Project/Site: PLU BIG SINKS 3-25-30

Job ID: 890-5458-1

SDG: 03C1558279

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5458-1	SS01	Solid	10/13/23 12:05	10/13/23 15:53	.05'
890-5458-2	SS02	Solid	10/13/23 12:10	10/13/23 15:53	.05'
890-5458-3	SS03	Solid	10/13/23 10:45	10/13/23 15:53	.05'
890-5458-4	SS04	Solid	10/13/23 10:50	10/13/23 15:53	.05'
890-5458-5	SS05	Solid	10/13/23 10:55	10/13/23 15:53	.05'
890-5458-6	SS06	Solid	10/13/23 11:00	10/13/23 15:53	.05'
890-5458-7	SS07	Solid	10/13/23 11:05	10/13/23 15:53	.05'
890-5458-8	SS08	Solid	10/13/23 11:10	10/13/23 15:53	.05'
890-5458-9	SS09	Solid	10/13/23 12:15	10/13/23 15:53	.05'
890-5458-10	SS010	Solid	10/13/23 12:20	10/13/23 15:53	.05'
890-5458-11	SS011	Solid	10/13/23 12:25	10/13/23 15:53	.05'
890-5458-12	SS012	Solid	10/13/23 12:30	10/13/23 15:53	.05'

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing

eurofins :

TO BE SEE

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

LEPaso, 1X (915) 365-3443, Lübbock, 1X (806) 794-1296

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Project Manager Boy (30) 11	Bill to: (if different)	Gorrett Green	Work Orde	Work Order Comments
下へくない。	Company Name:	XTO ENETRY	Program: UST/PST PRP	Brownfields ☐ RRC ☐ Superfund ☐
3122 Cational Portegius	Address:	Sloy E Greienest	State of Project:	
Cortshad, NIM, 88220	City, State ZIP:	Cortistachildy, 88220	Reporting: Level II Level III	PST/UST TRRP LevelIV
949-854-0882 Email: 13	Beill		Deliverables: EDD P	ADaPT ☐ Other:
Project Name DI () R. O.S. A.D.S. 3-25-6 Tum Around	pun	ANALYSIS REQUEST	REQUEST	Preservative Codes
Der: 03C. 1589 240	Rush Code			None: NO DI Water: H ₂ O
				Cool: Cool MeOH: Me
Screen January	received by			HCL: HC HNO 3: HN
				'H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT Jamp Blank: (Ye) No Wet kee: Y	Yes No			H ₃ PO ₄ : HP
tact: Yes No Thermometer ID:	MNCO			NaHSO 4: NABIS
Cooler Custody Seals: Yes No (N/A) Correction Factor:	0.2			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals: Yes No N/A Temperature Reading:	<i>'h'</i>	+		Zn Acetate+NaOH: Zn
)	2	H = 1.		NaOH+Ascorbic Acid: SAPC
Time	Depth Grab/ # of	d 1 12 12		Sample Comments
Sampled	dwo 1	1		
55 11 2 101312 12:25 0	9	ナナイン		COST CESTE
C\$ 12				1140131001
				WINCOTOCICLESTI
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	A			
8RCR,	AI S	b As Ba Be B Cd Ca Cr Co	\ \ \	Se Ag SiO ₂ Na Sr TI Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II U		Hg: 1631 / 245.1 / /4/0 / /4/1
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 service. Eurofins Xenco, A minimum charge of \$85.00 will be applied to each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	om client company to Eur lity for any losses or expe ach sample submitted to	rofins Xenco, its affiliates and subcontractors. It assigns stand enses incurred by the client if such losses are due to circumsta be tunofins Xenco, but not analyzed. These terms will be enforc	and terms and conditions ances beyond the control ed unless previously negotiated.	
Relinquished by: (Signature)	,	Date/Time Rejinquished by: (Signature)	ignature) Received by: (Signature)	ture) Date/Time
SINCO CONO	101	5 15 2		
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		9		FACOL SALVON SAL

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5458-1

SDG Number: 03C1558279

Login Number: 5458 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5458-1 SDG Number: 03C1558279

List Source: Eurofins Midland

Login Number: 5458 List Number: 2 List Creation: 10/17/23 10:23 AM

Creator: Rodriguez, Leticia

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

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**

QUESTIONS

Action 324437

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2327751376	
Incident Name	NAPP2327751376 PLU BIG SINKS 3-25-30 @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Plan Received	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	PLU BIG SINKS 3-25-30	
Date Release Discovered 09/20/2023		
Surface Owner	Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release			
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.			
Crude Oil Released (bbls) Details	Not answered.		
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 183 BBL Recovered: 45 BBL Lost: 138 BBL.		
Is the concentration of chloride in the produced water >10,000 mg/l	Yes		
Condensate Released (bbls) Details	Not answered.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Not answered.		
Other Released Details	Not answered.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.		

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

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

QUESTIONS, Page 2

Action 324437

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
hawat Paramana	
Initial Response	and the home and the state of the factions.
The responsible party must undertake the following actions immediately unless they could create a The source of the release has been stopped	
***	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Alan Romero
I hereby agree and sign off to the above statement	Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

District III

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

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

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

QUESTIONS, Page 3

Action 324437

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	OCD Imaging Records Lookup	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be prov	vided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contain	mination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each	n, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	29600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	370
GRO+DRO (EPA SW-846 Method 8015M)	370
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes co which includes the anticipated timelines for beginning and completing the remediation.	ompleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	05/17/2024
On what date will (or did) the final sampling or liner inspection occur	07/16/2024
On what date will (or was) the remediation complete(d)	07/16/2024
What is the estimated surface area (in square feet) that will be reclaimed	25705
What is the estimated volume (in cubic yards) that will be reclaimed	3808
What is the estimated surface area (in square feet) that will be remediated	25705
What is the estimated volume (in cubic yards) that will be remediated	3808
These estimated dates and measurements are recognized to be the best guess or calculating	ion at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjust	sted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 324437

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Alan Romero Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

Date: 03/18/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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

QUESTIONS, Page 5

Action 324437

QUESTIONS	(continued)
QUESTIONS:	COHUHUCU <i>i</i>

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

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QUESTIONS, Page 6

Action 324437

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	320899
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/12/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	6000

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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

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CONDITIONS

Action 324437

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	324437
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation Plan approved with the following conditions: The alternative confirmation sampling plan taking confirmation samples no more than 400 square feet is approved. This is the largest variance OCD will grant. Ensure vertical delineation is achieved during the excavation/remediation process. Submit remediation closure report by June 27, 2024.	3/29/2024