

December 16, 2024

**New Mexico Energy Minerals and Natural Resources Department** 

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

Re: Closure Request

Poker Lake Unit 22 DTD Pad D Incident Number NAPP2411631990 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the Poker Lake Unit 22 DTD Pad D (Site). The purpose of the excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address waste-containing soil resulting from the release of produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further action for the remediation of Incident Number NAPP2411631990.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 22, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20997°, -103.86489°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 9, 2024, a pump failure resulted in the loss of approximately 18 barrels (bbls) of produced water at the Site. No fluid was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) and an Initial C-141 Application (C-141) on April 25, 2024. The release was assigned Incident Number NAPP2411631990.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan*. The *Work Plan* was submitted on September 10, 2024, and approved by the NMOCD on September 17, 2024. The *Work Plan* proposed excavation of waste-containing soil identified during delineation activities. The approved *Work Plan* proposed the following:

- Excavation of 18,800 square feet on pad to a depth of 1-foot bgs;
- An estimated 700 cubic yards of soil would be excavated and properly disposed of at a New Mexico approved landfill disposal facility; and
- Soil sampling would be completed following the approved sampling variance of every 400 square feet along the floor and 200 square feet along the sidewalls of the excavation.

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

XTO Energy Inc. Closure Request Poker Lake Unit 22 DTD Pad D

### SITE CHARACTERIZATION AND CLOSURE CRITERIA

It is estimated that depth to groundwater is greater than 100 bgs. To confirm depth to groundwater at the Site XTO proposed, in the *Work Plan*, to advance a soil boring to a depth of 105 feet bgs. However, based on confirmation soil sample laboratory analytical results, the proposed soil boring was not needed nor has it been drilled prior to the date of this *Closure Request*. XTO is submitting this *Closure Request* with the following strictest NMOCD Table I Closure Criteria (Closure Criteria) applied:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

### **EXCAVATION SOIL SAMPLING ACTIVITIES**

Ensolum personnel returned to the Site between September 24 and October 24, 2024, to oversee excavation activities. Based on the updated Closure Criteria, impacted soil was identified from delineation soil sample laboratory analytical results provided in the approved *Work Plan*. Excavation activities were performed by use of heavy equipment. To direct excavation activities, the soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 400 square feet from the floor and 200 square feet from the sidewall of the excavation extent, in accordance with the approved *Work Plan*. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS65 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Confirmation soil samples SW01 through SW10 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 1. Photographic documentation of the excavation activities is provided in Appendix A.

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, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

The final excavation extent measured approximately 25,728 square feet. A total of approximately 1,900 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the OWL Disposal Facility in Jal, New Mexico. The excavation was backfilled with material purchased locally and recontoured to match pre-existing Site conditions.

### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples collected indicated all COCs were compliant with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix B.



XTO Energy Inc. Closure Request Poker Lake Unit 22 DTD Pad D

### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site in accordance with the approved *Work Plan* to address the April 9, 2024 release of produced water. Delineation soil sample laboratory analytical results presented in the *Work Plan* indicated chloride impacted soil existed in soil samples SS01 through SS03, and PH05 collected at 0.5 feet bgs. The final excavation extent provided in this *Closure Request* indicates these soil samples were removed. Laboratory analytical results for excavation soil samples presented in this *Closure Request* and collected from the final excavation extent on the facility pad (FS01 through FS65, and SW01 through SW10) indicated all COC concentrations were compliant with the Closure Criteria. This includes all confirmation soil samples collected in the pasture area (FS01 through FS24), presented in the *Work Plan*. The approved September 10, 2024, *Work Plan* is included in Appendix C. Based on laboratory analytical results, no further remediation is required at this time. The excavation has been backfilled with material purchased locally and recontoured to match pre-existing Site conditions.

Excavation of soil has mitigated impacts at this Site. Depth to groundwater is estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2411631990.

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

Sincerely, **Ensolum, LLC** 

Tracy Hillard Project Engineer

Transfithant

Tacoma Morrissey Associate Principal

Mouissey

cc: Colton Brown, XTO Kaylan Dirkx, XTO

Bureau of Land Management

Appendices:

Figure 1 Excavation Confirmation Soil Sample Locations

Table 1 Soil Sample Analytical Results

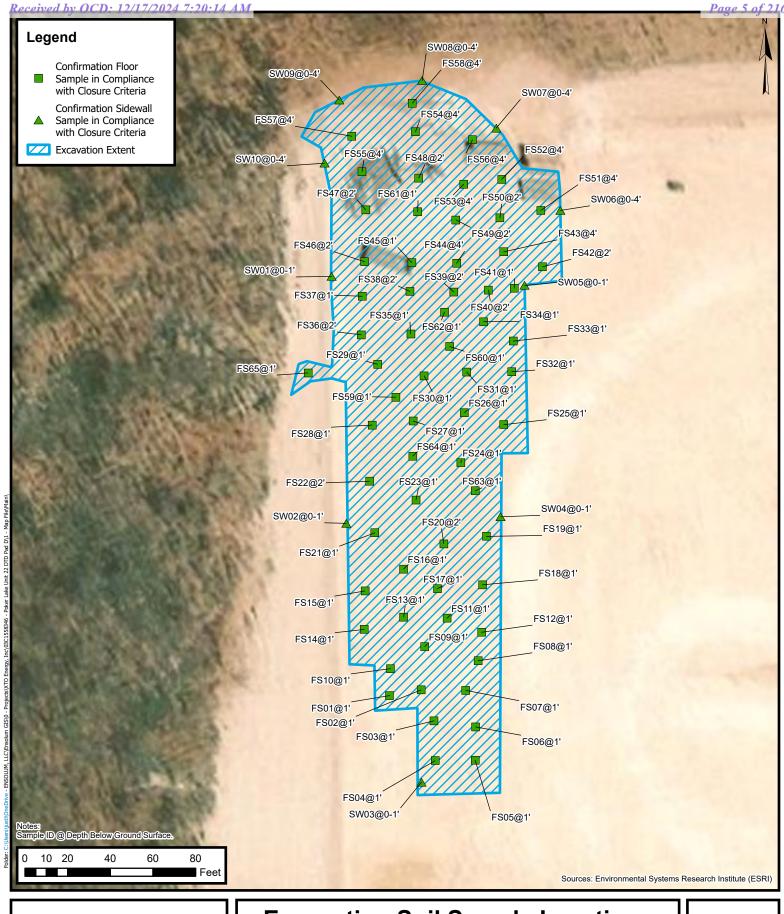
Appendix A Photographic Log

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

Appendix C September 10, 2024, Remediation Work Plan



**FIGURES** 





### **Excavation Soil Sample Locations**

XTO Energy, Inc Poker Lake Unit 22 DTD Pad D Incident Number: nAPP2411631990 Unit B, Sec 22, T24S, R30E Eddy County, New Mexico FIGURE 1

Released to Imaging: 12/23/2024 2:07.52 PM



**TABLES** 



### TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS POKER LAKE UNIT 22 DTD PAD D 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 Cl	osure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Excavation	Confirmation S	Soil Samples				
FS01	09/24/2024	1	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS03	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS04	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS05	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS06	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS07	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS08	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS09	09/24/2024	1	<0.050	<0.300	<10.0	18.5	<10.0	<10.0	<10.0	320
FS10	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS11	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS12	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS13	09/24/2024	1	<0.050	<0.300	<10.0	28.8	<10.0	28.8	28.8	160
FS14	09/24/2024	1	<0.050	<0.300	<10.0	37.0	<10.0	37.0	37.0	288
FS15	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS16	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS17	09/24/2024	1	<0.050	<0.300	<10.0	78.4	<10.0	78.4	78.4	320
FS18	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS19	09/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS20	10/07/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS21	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS22	10/07/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS23	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS24	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS25	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS26	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS27	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS28	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS29	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS30	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS31	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320

Ensolum



### TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS POKER LAKE UNIT 22 DTD PAD D 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 (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS32	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS33	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS34	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS35	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS36	10/04/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS37	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS38	10/07/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS39	10/07/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS40	10/07/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS41	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS42	10/07/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS43	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80 0
FS44	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS45	09/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS46	10/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS47	10/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS48	10/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS49	10/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS50	10/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS51	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS52	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS53	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS54	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS55	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS56	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS57	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS58	10/24/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS59	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS60	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS61	10/10/2024	1	<0.050	<0.300	<10.0	53.0	<10.0	53.0	53.0	368
FS62	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS63	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432

Ensolum



### TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS POKER LAKE UNIT 22 DTD PAD D 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	NE	100	600
FS64	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS65	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW01	10/08/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW02	10/08/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW03	10/07/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SW04	09/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW05	10/10/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW06	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW07	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW08	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW09	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW10	10/24/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

### 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



**APPENDIX A** 

Photographic Log



### **Photographic Log**

XTO Energy, Inc Poker Lake Unit 22 DTD Pad D NAPP2411631990





Photograph: 1 Date: 10/7/2024

Description: Excavation activities

View: Northwest

Photograph: 2 Date: 10/10/2024

Description: Excavation activities

View: Southeast





Photograph: 3 Date: 10/10/2024

Description: Excavation activities

View: West

Photograph: 4 Date: 11/6/2024

Description: Backfilled excavation extent

View: Northwest



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



September 30, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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 TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 1' (H245848-01)

DTEV 0021D

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	96.0	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024

Reported: 09/30/2024
Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 02 1' (H245848-02)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	128	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.6	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 03 1' (H245848-03)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	224	16.0	09/27/2024	ND	400	100	400	0.00	
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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 04 1' (H245848-04)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 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	256	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 05 1' (H245848-05)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	< 0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 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	208	16.0	09/27/2024	ND	400	100	400	0.00	
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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 06 1' (H245848-06)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 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	224	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 07 1' (H245848-07)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	220	110	200	0.850	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	231	116	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	124 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported:

09/30/2024 Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 08 1' (H245848-08)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 09 1' (H245848-09)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	18.5	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	18						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of groffits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 09/26/2024
 Sampling Date:
 09/24/2024

 Reported:
 09/30/2024
 Sampling Type:
 Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO

### Sample ID: FS 10 1' (H245848-10)

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	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 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	80.0	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

mg/kg

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 11 1' (H245848-11)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.12	106	2.00	0.672	
Toluene*	<0.050	0.050	09/27/2024	ND	2.31	116	2.00	5.68	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.47	123	2.00	6.60	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	7.36	123	6.00	5.66	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/27/2024	ND	400	100	400	0.00	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



09/24/2024

### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: Reported: 09/30/2024 Sampling Type:

Reported: 09/30/2024 Sampling Type: Soil
Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO

### Sample ID: FS 12 1' (H245848-12)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	112	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 13 1' (H245848-13)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	160	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	28.8	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



09/24/2024

### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date:

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO

### Sample ID: FS 14 1' (H245848-14)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	37.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported:

09/30/2024 Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 15 1' (H245848-15)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

mg/kg

Project Location: XTO

Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 16 1' (H245848-16)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	160	16.0	09/27/2024	ND	400	100	400	0.00	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported:

09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 17 1' (H245848-17)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/27/2024	ND	400	100	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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	78.4	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	95.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Sampling Date: 09/24/2024

Reported: 09/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO

### Sample ID: FS 18 1' (H245848-18)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



09/24/2024

Soil

### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Sampling Date:

Sampling Type:

Project Location: XTO

### Sample ID: FS 19 1' (H245848-19)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Notes and Definitions**

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely

affected.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits inclured by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

State: NM Zip: 88220 Attn: ANU LALL  State: NM Zip: 88220 Attn: ANU LALL  Shall: Project Covner:  Company: TO Edward  Address: 3pt Edwa		(0/0) 000-2020	O FAA (3/3) 393-24/6	24/6				
State: NM  State: NM  Zip: 88220  Attr: ATML  Address: Apol Exacus  Browner:  City: Carbon  Browner:  City: Carbon	Company Name	: Ensolum, LLC			BILLTO			
State: NM Zip: 88220 Attn: ATMA LUTL  AND Fax #: AND PAN J  Depth Core State: MATRIX PRESERVI SAMPLING  PROSERVI SAMPLING  PRESERVI SAMPLING  PRES	roject Manage	Traw	Hillard		P.O. #:			$\exists$
Sample I.D. Physical Owner:  Sample I.D. Depth Conservation and a second and a seco	Address: 3122 I	Vational Parks Hy	Ny		Company: XTO E	Neval	_	
Address: 34 to the control of the co	City: Carlsbad		State: NM	Zip: 88220	Attn: AMIAR	ita		
State: N. Zip: 3823 O  Phonor #: 375 - 857 - 33 M  Presserv  Samp Ling  MATRIX PRESSERV  SAMPLING  PRESSER	hone #: 57	-437			Address: 3 04 E	Scar of		
Beller, M. Zip. 38270  Phone #: SAS-8&1-73.99  Phone #	0	S	Project Own	91.	City: ( 2/5/2	2		
PROBLEM PROBLEM   Fax #:   Fax	roject Name:	PU 22 1	OTO PATO	J	3	220		
PRESERV SAMPLING  WATER  PRESERV SAMPLING  FOR SERVER  PRESERV SAMPLING  PRESERVE S	roject Location	)			*	5		
Deptth (Ges)    Continued and the second and the se	ampler Name:	Shure	,	0.				
Depth (feet) OR AINTERS  (Feet) OR AINTERS  (GROND MATER  (GROND MATER)  (GROND MATER  (GROND MATER)  (GROND MA	FOR LAB USE ONLY			P.	ESERV.	re	2	
A Solution of the cases of the activity and the method in a contract or bot it shall be introduced by the client to the cases of the contract	Lab I.D.	Sample I.		# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER :	Benzer BTEX TPH	Chloride	
Time: "C 3. Sample Condition CHECKED.B:"  Turnaround Time: Standard  Description: Standard  Description: "C 3. Sample Condition  CHECKED.B:"  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:"  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:"  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  CHECKED.B:  Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 3. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 4. Sample Condition  Checked.B. Turnaround Time: Standard  Description: "C 4. Sample Condition  Checked.B. Turnaround Time: "C 4. Sample Condition  Checked.B. Turnaround Time: "C 4. Sample Condition  The Condition Ti	V-	200		· *	h Zhalla X	102/0 X X X	×	
Time: 1 Sample Condition  Correspond 1 map: 10 Sample Condition  Checked 3 may 1 may	CI	2027				1039		
Time: 4.2  Received By:  Remarks:  Remarks	1+	1504				1042		
Times:  Received By:  Received By:  Received By:  Cool Intact.  Cool Int	0	700				1040		
All Results are emailed. Please provide Email address:    All Results are consequently damages, including without imitation, business interruptions, loss of less, or loss of profits incurred by dense, it is subsidiaries.   All Results are emailed. Please provide Email address:	16	4000				550		
In liability and client's exclusive remesty for any claim arising whether based in conteact or text, shall be limited to the amount paid by the client for the cand any other cause whatsoever shall be deemed window unless made in writing and concloved by Cardinal within 30 days after completion of the applicable rederinds or consequented damages, including without unless made in writing and received By:    Pate:   17	00	208						
are liability and client's exclusive remedy for any claim arising whether based in contract or text, shall be limited to the amount paid by the client for the received whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable rectented or consequential damages, including without firmation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.    Date:	2	MOST						
Time:    Corrected Tamps.**C   Gold Intact   Corrected Tamps.**C	EASE NOTE: Liability and	Damages, Cardinal's liability	and client's exclusive remedy for a	ny claim arising whether based in contract of	or tort, shall be limited to the amount pai	d by the client for the		
Pate:   Time: 43   Received By:   Verbal Result:   Yes   No   Add'l Phone #:   All Results are emailed. Please provide Email address:	vice. In no event shall Ca	dinal be liable for incidental or out of or related to the performance of the performance	or consequental damages, including mance of services hereunder by (	g without limitation, business interruptions, ic Lardinal, regardless of whether such claim is	es of use, or loss of profits incurred by or based upon any of the above stated re	Sent, its subsidiaries, asons or otherwise.		
Received By:  Time: 18	elinquished By	-Undang	Pate: UZ	Received By:		All Results are emailed. Please p	o Add'l Phone #: provide Email address:	
Cool Intact (Initials)  Corrected Tamps: C   G   Gres Gres   Types   Thermometer ID   The Gres Gres Gres Gres Gres Gres Gres Gre	elingulshed By		Pate: 24-24	0	Make		MWING COLLEGE AS A SOLVER SELECTION OF SELEC	5
	elivered By: (Cinampler - UPS - E	cle One) lus - Other:	reated T	Sample Condition Cool Intact Pres Pres			Bacteria (only) S Cool Intact	

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

Page 22 of 23

Relinquished By

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

00000

0

Cool Intact

Yes Tyes

No No

CHECKED BY:

Turnaround Time:

Standard Rush 10.6

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

| Yes | Yes | Yes | Orrected Temp.

Observed Temp. °C Corrected Temp. °C

REMARKS

3

A MORN SOLVEN, COM

IN MONSOND ENSORMIN

(Initials)

Thermometer ID

848. Lime: 248

Relinquished By:

Date:

Received By:

All Results are emailed. Please provide Email address:

Verbal Result:

☐ Yes

O No

ental damages, including without limit

Time: 43

vice. In no event shall Cardinal be liable for incidental or

## aboratories 101 East Marland, Hobbs, NM 88240 ARDINAL

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Sampler Name: Project Location: Project Name: Project #: () Phone #: City: Carlsbad Address: 3122 National Parks Hwy Project Manager: PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive analyses. All claims including those for negligence and any other cause whatso FOR LAB USE ONLY Lab I.D. W. F. OI 200 Sample I.D. -437-3806 (575) 393-2326 FAX (575) 393-2476 MES 300 Fax #: Project Owner: State: Depth (feet) E Z shall be de G)RAB OR (C)OMP Zip: 88220 # CONTAINERS GROUNDWATER WASTEWATER made in writing and received by Cardinal within 30 days MATRIX SOIL OIL SLUDGE P.O. #: OTHER Phone #: State: NM Zip: 88226 City: ( Attn://// Fax #: Address: Company: X ACID/BASE PRESERV. EUSINE ICE / COOL OL THE OTHER 0 DATE SAMPLING 367.732 client, its subsidiarie aid by the client for the Scrane completion of the applicable do hlon ANALYSIS REQUEST

C000



September 30, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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 TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 21 1' (H245849-01)

DTEV 0021D

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 23 1' (H245849-02)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



09/25/2024

Soil

Sampling Date:

### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Sampling Type: Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO

### Sample ID: FS 24 1' (H245849-03)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 25 1' (H245849-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits inclured by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

mg/kg

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 26 1' (H245849-05)

BTEX 8021B

DILX GOZID	mg/	- Kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Analyzed By: JH

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

mg/kg

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 27 1' (H245849-06)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 28 1' (H245849-07)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 29 1' (H245849-08)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	< 0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	209	104	200	1.34	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	217	109	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 30 1' (H245849-09)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 31 1' (H245849-10)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 32 1' (H245849-11)

Recovery         True Value QC         RPD         Qualifier           104         2.00         5.20           101         2.00         4.43           104         2.00         4.45           103         6.00         4.54
101     2.00     4.43       104     2.00     4.45
104 2.00 4.45
103 6.00 4.54
Recovery True Value QC RPD Qualifier
100 400 3.92
Recovery True Value QC RPD Qualifier
112 200 2.02
109 200 2.36
Re 1

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported:

09/30/2024 Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 33 1' (H245849-12)

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	09/27/2024	ND	2.08	104	2.00	5.20	
Toluene*	<0.050	0.050	09/27/2024	ND	2.02	101	2.00	4.43	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.07	104	2.00	4.45	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.18	103	6.00	4.54	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported:

09/30/2024 PLU 22 DTD PAD D

Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 34 1' (H245849-13)

Project Name:

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	09/27/2024	ND	2.14	107	2.00	10.1	
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 35 1' (H245849-14)

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	09/27/2024	ND	2.14	107	2.00	10.1	
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024

Reported: 09/30/2024
Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

ma/ka

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 37 1' (H245849-15)

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	09/27/2024	ND	2.14	107	2.00	10.1	
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

Applyzod By: 14

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 41 1' (H245849-16)

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	09/27/2024	ND	2.14	107	2.00	10.1	
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

ma/ka

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 45 1' (H245849-17)

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	09/27/2024	ND	2.14	107	2.00	10.1	
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/26/2024 Reported: 09/30/2024

Reported: 09/30/2024
Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW 04 0-1' (H245849-18)

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	09/27/2024	ND	2.14	107	2.00	10.1	
Toluene*	<0.050	0.050	09/27/2024	ND	2.21	110	2.00	9.46	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.21	111	2.00	9.51	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.87	115	6.00	8.82	
Total BTEX	<0.300	0.300	09/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/30/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	224	112	200	2.02	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	218	109	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	(5/5) 393-2326 FA	FAX (5/5) 393-24	1/0			
Company Name: Ensolum, LLC	: Ensolum, LLC			OL TAIR	ANAL	ANALYSIS KEQUESI
Project Manager:	# mest:	Marel		P.O. #:		
Address: 3122 N	Address: 3122 National Parks Hwy			Company: (T)	hear	
City: Carlsbad		State: NM	Zip: 88220	Attn: Any Pu	7	
Phone #: S	S-757-3100	Fax #:		Address: 304 EC	rece St.	
Project #: 19	GEORLA	Project Owner		city: Cartsbac	9	
Project Name:	22 mg	DID 8A	50	State: NM Zip: 86	in	
Project Location:	955NSS	346		Phone #: 575-8	125	
Sampler Name:	Shurele 15	SUBOAN		1		
FOR LAB USE ONLY			MATRIX	X PRESERV. SAMPLING	e	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Benzen BTEX TPH Chloric	
1	4521 4521		- C	Pusul &	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
cus	FSZH				6938	
3-6	1525				277.00	
60	4754				1200	
07	255				1909	
90	2550				9131	
PLEASE NOTE: Liability and Damages	d Damages. Cardinal's liability and ci	client's exclusive remedy for any claim arising	any claim arising whether based in control university traces made in writers made in writers.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy (or any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the policiable.	ant paid by the client for the year of the applicable	
service. In no event shall C affiliates or successors arisi	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, services necessions are accessions arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim	equental damages, including e of services hereunder by C	nder by Cardinal, regardless of whether such	bbns, loss of use, or loss of profits incurred by client, its subsidiaries claim is based upon any of the above stated reasons or otherwise.  Verhal Resu	□ Yes □ No	Add'l Phone #:
Kelinquished by	10 Rough	Time: 7.17	Vecelsen pk.		emailed. Please prov	com, Kthomason Olysou
Relinquished By		12.34.24 Time:34.24	Received By:	ra Makke	REMARKS:	Partial Control Condition
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. *C	Sample Cool	CHE	Tumaround Time: Standard  We William Rush Thermometer ID 4475 #/#6  Correction Factor 4575 - 0.66	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C    Yes
			No	2	ı	NO NO COLLECTED LELLIS. C

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

Page 21 of 22

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

100

CHECKED BY (Initials)

Bacteria (only) Sample Condition
Cool Intact Observed Temp. '

Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	26	FAX (575) 393-2476	476					
Company Name: Ensolum, LLC	Ensolum, LLC			OT THE		ANA	ANALYSIS REQUEST	
Project Manager:	Track Hi	land		P.O. #:				_
Address: 3122 N	Address: 3122 National Parks Hwy			Company: XID E	News			
City: Carlsbad		State: NM	Zip: 88220	Attn: Any	Cuti			_
Phone #: 5	2008- IEBE	0 Fax #:		Address 3 04 E	reene S			_
Project #: 03	18883H	Project Owner:		city: Carlsbae				_
Project Name:	mu 22	AS CLC	0	VIV Zip:	022			_
Project Location:	2			Phone #: 575857	#329	e		_
Sampler Name:	Sweet	Brook	2	Fax #:	e	d		_
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING	LING	X		_
Lab I.D.	Sample I.D.	Depth (feet)	OR (C)OMP. AINERS DWATER WATER	SE:	enz.	PH		
bhs. Statl			# CON	OTHE ACID/OTHE DATE	TIME	-		
//	1532	1.	1 ×		IHA K	XXX		
12	1533			-	182			
E,	753H				1156			
14	7555				1223			
15	FS37				270			
11	150 M				1259			
17	FSYS				1308			
18	HOMS	0-1	\ <del>-</del>	-  -	H03 1	1-		
+								
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Card	Damages. Cardinal's liability and cli those for negligence and any other inal be liable for incidental or conse	ent's exclusive remedy for an cause whatsoever shall be d quental damages, including	y claim arising whether based in contract leemed waived unless made in writing and without limitation, business interruptions, i	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed weived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	by the client for the completion of the applicable ent, its subsidiaries,			
Relinquished By:	ors arising out of or related to the performance ed By:	Date 71	regardless of whether such claim Received By:	is based upon any of the above stated reas	j#:	Yes □ No Add'I	Add'l Phone #:	
X	R	MKO IN			All Results are email	All Results are emailed. Please provide Email address:	nail address:	
Relinguished By:	chan	Date:	Received By:		TWILL STATE	SANSOLIM	STUSPING CAM, 12 MINOSON BEN SOUTH	MIN
			The same of the same of		The last of the last of the last			

Page 22 of 22



October 10, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 10/08/24 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Reported: 10/10/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 2 (H246103-01)

DTEV 0021D

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	80.0	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil
Project Name: PLU 22 DTD PAD D Sampling Condition: Cool 8

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO

### Sample ID: SW 03 0-1 (H246103-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	416	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO

ma/ka

### Sample ID: FS 20 2 (H246103-03)

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	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	80.0	16.0	10/09/2024	ND	432	108	400	7.14	
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	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

mg/kg

### Sample ID: FS 36 2 (H246103-04)

BTEX 8021B

DILX GOZID	iiig/	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.16	108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/09/2024	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	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

mg/kg

### Sample ID: FS 38 2 (H246103-05)

BTEX 8021B

DILX GOZID	ilig/ kg		Andryzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	10/09/2024 ND 2		108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024	ND	2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	48.0	16.0	10/09/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

mg/kg

### Sample ID: FS 39 2 (H246103-06)

BTEX 8021B

DIEX GOZID	mg/ kg		Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	10/09/2024 ND 2		108	2.00	1.67	
Toluene*	<0.050	0.050	10/09/2024 ND 2		2.18	109	2.00	1.43	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.19	110	2.00	1.64	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	6.52	109	6.00	1.38	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	96.0	16.0	10/09/2024 ND		416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024

Reported: 10/10/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

ma/ka

Project Location: XTO

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 2 (H246103-07)

RTFY 8021R

B1EX 8021B	mg/	кд	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	ND	2.23	111	2.00	1.39	
Toluene*	<0.050	0.050	10/09/2024	ND	2.31	116	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.40	120	2.00	6.50	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.23	121	6.00	7.81	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/09/2024	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	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	107 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

Applyzod By: 14

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/08/2024 Sampling Date: 10/07/2024

Reported: 10/10/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO

mg/kg

### Sample ID: FS 40 2 (H246103-08)

BTEX 8021B

	979		7.1.4.7.2	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2024	10/09/2024 ND 2		111	2.00	1.39	
Toluene*	<0.050	0.050	10/09/2024	ND	2.31	116	2.00	4.72	
Ethylbenzene*	<0.050	0.050	10/09/2024	ND	2.40	120	2.00	6.50	
Total Xylenes*	<0.150	0.150	10/09/2024	ND	7.23	121	6.00	7.81	
Total BTEX	<0.300	0.300	10/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	<b>320</b> 16.0 10/09/2024 ND		ND	416	104	400	3.77		
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2024	ND	206	103	200	0.329	
DRO >C10-C28*	<10.0	10.0	10/09/2024	ND	199	99.3	200	0.606	
EXT DRO >C28-C36	<10.0	10.0	10/09/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Ensolum, LLC	0	BILLTO		
Project Manager: Tracy Hillard	ard	PO #		ANALYSIS REQUEST
Address: 3122 National Parks Hwy	Hwy	**		
city: Carlsbad	State:NM Zin: 88220	Company: ATO Energy Inc.		
Phone #: 337 257-8307		Address: 3104 E Green C	-	
Project #: 03C1558346	Project Owner: XTO	City: Carlshad	1.	
Project Name: PLU 22 DTD	Pad	dilan		
on:		State: NM Zip: 88220		
A	r	Phone #:		
FOR LAB USE ONLY	MIELLIND	Fax#:		
- ALL PAGE CAPT.	P. MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(feet)  RAB OR (C)OM ONTAINERS OUNDWATER STEWATER L	JDGE HER: D/BASE: / COOL HER:	TEX H ILORIDE	
1 FS 22	V × S	O A IC O DAIE	T	
SW03	0-1	2611 12 101 17	× ×	
3 FS Z O	2	1000		
110		210		
17		200	) (	
1 F 5 5 9		1235	5. (	
7 1200		1435	0	
	*	→ → i440	4 4	
PLEASE NOTE: Liability and Damages. Cardinal's liability and arralyses. All claims including those for negligence and any of service. In no event shall Cardinal be liability for including and any of service.	PLEASE NOTE: Lability and Damages, Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liability for produced and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal beating a normal shall cardinal be liability for produced as	or fort, shall be limited to the amount paid by the client of received by Cardinal series and a	or the	
Relinquished By:	nce of services hereunder by Cardin regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Received  Receiv	interruptions, loss of use, or loss of profits incurred by client, its subsider such daim is based upon any of the above stated reasons or other	laries,	
Adr Must	0110	S AN	Verbal Result:   Yes   No Add'I Phone #:  All Results are emailed. Please provide Email address:  bbelili@ensolum.com TMorrisses/Poosetimeters.	Add'l Phone #: ovide Email address:
orniquened by.	Time: Received By:	20	(S: Cost Center: 2242511001	EMARKS: Cost Center: 2242511001 Incident ID: nAPP2411631990
Delivered By: (Circle One)	Observed Temp. C. Sample Condition Cool Intact	CHECKED BY:	Turnaround Time: Standard	B
FURM-008 R 3.2 10/07/21	+ Cardinal Council	Correction Factor	Correction Factor 830 2-day	Yes Yes
	resident accept verbal changes. Please email changes to celey.keene@cardinallabshm.com	nges. Please email changes to c	eley.keene@cardinallab	



October 16, 2024

TRACY HILLARD

**ENSOLUM** 

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 02 0-1	H246163-01	Soil	08-Oct-24 09:45	10-Oct-24 14:25
SW 01 0-1	H246163-02	Soil	08-Oct-24 10:15	10-Oct-24 14:25
FS 50 2	H246163-03	Soil	08-Oct-24 12:00	10-Oct-24 14:25
FS 49 2	H246163-04	Soil	08-Oct-24 12:05	10-Oct-24 14:25
FS 48 2	H246163-05	Soil	08-Oct-24 12:10	10-Oct-24 14:25
FS 47 2	H246163-06	Soil	08-Oct-24 12:15	10-Oct-24 14:25
FS 46 2	H246163-07	Soil	08-Oct-24 12:20	10-Oct-24 14:25

10/16/24 - The BTEX was originally batched as a water instead of a soil. This is the revised report with the corrected units and will replace the one sent on 10/11/24.

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### SW 02 0-1 H246163-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	368		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JН	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JН	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			118 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			118 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### SW 01 0-1 H246163-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		103 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			107 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### FS 50 2 H246163-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	416		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		103 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### FS 49 2 H246163-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		104 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			70.7 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			70.7 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### FS 48 2 H246163-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JН	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		103 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctane			125 %	48.2	-134	4101023	MS	11-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4101023	MS	11-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### FS 47 2 H246163-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		103 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			112 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			113 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### FS 46 2 H246163-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	4101116	AC	11-Oct-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4101021	JH	10-Oct-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4101021	JН	10-Oct-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		103 %	77.5	-125	4101021	ЈН	10-Oct-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctane			131 %	48.2	-134	4101023	MS	10-Oct-24	8015B	
Surrogate: 1-Chlorooctadecane			133 %	49.1	-148	4101023	MS	10-Oct-24	8015B	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: PLU 22 DTD PAD D Project Number: 03C1558346

Project Manager: TRACY HILLARD

Fax To:

Reported: 16-Oct-24 11:37

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4101116 - 1:4 DI Water										
Blank (4101116-BLK1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	ND	16.0	mg/kg							
LCS (4101116-BS1)				Prepared &	Analyzed:	11-Oct-24				
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (4101116-BSD1)				Prepared &	z Analyzed:	11-Oct-24				
Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



%REC

### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Ethylbenzene

Total Xylenes

Total BTEX

Project: PLU 22 DTD PAD D
Project Number: 03C1558346

Spike

Source

Reported: 16-Oct-24 11:37

RPD

Project Manager: TRACY HILLARD

Fax To:

Reporting

0.050

0.150

0.300

ND

ND

ND

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4101021 - Volatiles									·	
Blank (4101021-BLK1)				Prepared:	10-Oct-24 A	nalyzed: 11	l-Oct-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							

mg/kg

mg/kg

mg/kg

Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500	104	77.5-125	
LCS (4101021-BS1)				Prepared & Ana	lyzed: 10-Oct-24		
Benzene	2.19	0.050	mg/kg	2.00	110	80.8-112	
Toluene	2.12	0.050	mg/kg	2.00	106	78.7-114	
Ethylbenzene	2.13	0.050	mg/kg	2.00	107	70.9-120	
m,p-Xylene	4.28	0.100	mg/kg	4.00	107	76.9-119	
o-Xylene	2.07	0.050	mg/kg	2.00	104	71.7-120	
Total Xylenes	6.35	0.150	mg/kg	6.00	106	75.6-119	
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500	103	77.5-125	

LCS Dup (4101021-BSD1)				Prepared & Anal	yzed: 10-Oct-24			
Benzene	2.14	0.050	mg/kg	2.00	107	80.8-112	2.46	8.26
Toluene	2.07	0.050	mg/kg	2.00	103	78.7-114	2.33	9.03
Ethylbenzene	2.08	0.050	mg/kg	2.00	104	70.9-120	2.46	11.9
m,p-Xylene	4.17	0.100	mg/kg	4.00	104	76.9-119	2.56	11
o-Xylene	2.05	0.050	mg/kg	2.00	102	71.7-120	1.12	15
Total Xylenes	6.22	0.150	mg/kg	6.00	104	75.6-119	2.09	12.2
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500	105	77.5-125		

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successing is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



%REC

Limits

RPD

### **Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Analyte

Surrogate: 1-Chlorooctadecane

Project: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Manager: TRACY HILLARD

Spike

Level

50.0

Source

Result

%REC

116

49.1-148

Fax To:

Reported: 16-Oct-24 11:37

RPD

Limit

Notes

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Units

Reporting

Limit

Result

58.0

Blank (4101023-BLK1)				Prepared & Anal	lyzed: 10-Oct-24				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0	117	48.2-134			
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0	116	49.1-148			
LCS (4101023-BS1)				Prepared & Anal	lyzed: 10-Oct-24				
GRO C6-C10	217	10.0	mg/kg	200	109	66.4-123			
DRO >C10-C28	220	10.0	mg/kg	200	110	66.5-118			
Total TPH C6-C28	437	10.0	mg/kg	400	109	77.6-123			
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0	123	48.2-134			
Surrogate: 1-Chlorooctadecane	59.7		mg/kg	50.0	119	49.1-148			
LCS Dup (4101023-BSD1)				Prepared & Anal	lyzed: 10-Oct-24				
GRO C6-C10	216	10.0	mg/kg	200	108	66.4-123	0.705	17.7	
DRO >C10-C28	220	10.0	mg/kg	200	110	66.5-118	0.0322	21	
Total TPH C6-C28	436	10.0	mg/kg	400	109	77.6-123	0.333	18.5	
Surrogate: 1-Chlorooctane	60.4		mg/kg	50.0	121	48.2-134			

mg/kg

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Notes and Definitions**

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence aring any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 13 of 14

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

		100000000000000000000000000000000000000								
Company Name:	Ensolum, LLC			BILL TO	3	1			2	
Project Manager:	TYACH	Millard	2	P.O.#:		+	1	ANAL TOIS KE	KEQUEST	1
Address: 3122 National Parks Hwy	lational Parks	Hwy		pany: XTO	Energy Inc.	_				_
city: Carlsbad		State: NM	Zip: 88220	Attn: Amy Ruth		_				_
Phone #: 337	058-452.	07 Fax#:		in	Greene St.	_	_			_
Project #: 03C	034558346	Project Owner: XTO	r: XTO			_	_			_
Project Name:	PLU 27	O prof all	0	State: NM Zip: 88220	220		_	_		
Project Location:				- 1		_				
Sampler Name:	Androw	MALM		Fav #		_				
FOR LABUSE ONLY			MATRIX	ESERV.	SAMPLING					
Lab I.D.	Sample I.D.	Sample Depth	B OR (C)OMP TAINERS NDWATER EWATER	t:	~	^	ORIDE			
EDINHER			# CON	OTHER ACID/E ICE / C OTHER	BTE	TPH	CHL			
) -	2.0MS	1.0	C 1 X	X 10-2-24	X ShbO 1	×	×		+	1
N (	DWOI	1-0			1615	_	-			
دا	ESUG	11			1200					
S	8 h 54	7			1003	-				
6	FS 47	2			5161	-				
7	RSUB	2	←	<del>-</del>	1777	-	4			
				*		1				
PALEASE NOTE: Liability and Damages analyses. All claims including those for r service. In no event shall Cardinal be lial affiliates or successors arising out of or n	mages. Cardinal's liability and se for negligence and any of il be liable for incidental or co of or related to the performa	d client's exclusive remedy for any ther cause whatsoever shall be do onsequental damages, including v ance of services hereunder by Ca	PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other clause whatsower shall be determed whether under made in writing and received by Cardinal which in 30 days after compelsion of the applicable services, in his event shall Cardinal be liable for incidental or consequental damages, including whold mitration, business intemptions, based use, or loss of profits incurred by client, its subsidiaries, infliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is beased unon more of the characteristics.	or fort, shall be limited to the amount pa d received by Cardinal within 30 days, after toss of use, or loss of profits incurred by is based into near of the above to	d by the client for the if completion of the appli-	cable	-			E
Jan San San San San San San San San San S	Mul	time:	Received By:	S Carried	Verbal Result: All Results are	☐ Yes emailed. F	. Please provid	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: TH	THillard@ensolum.com	
Relinquished By:		Date:	Received By:	J. Company	REMARKS: Cost Center	., dini.com,	Inviorissey@en	EMARKS:  Cost Center: Incident ID:	@ensolum.com	
Delivered By: (Circle One)		Observed Temp. °C/9C	- "	CHECKED BY:	Turnaround Tim	JO 11 0	Standard	B	Bacteria (only) Sample Condition	
FURMINOUS R 3.	Bus - Other:	Corrected Tamp. °C	-2.5 HARS TYPES	Spinos	Thermometer ID #113	The state of the s	T-Zave R	_	Observed Temp. °C	



October 15, 2024

TRACY HILLARD ENSOLUM 3122 NATIONAL PARKS HWY

RE: PLU 22 DTD PAD D

CARLSBAD, NM 88220

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 9:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024 Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: SW 05 0-1 (H246199-01)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 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	208	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 59 1 (H246199-02)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	384	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	70.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 60 1 (H246199-03)

overy True Value QC RPD Qualifier
. 200 427
3 2.00 4.37
4 2.00 4.61
2.00 4.53
6.00 4.47
overy True Value QC RPD Qualifier
3 400 0.00
overy True Value QC RPD Qualifier
5 200 0.905
200 0.990
5

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 61 1 (H246199-04)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	368	16.0	10/14/2024	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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	53.1	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 62 1 (H246199-05)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/14/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 63 1 (H246199-06)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/14/2024	ND	432	108	400	0.00	
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	10/11/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 64 1 (H246199-07)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	352	16.0	10/14/2024	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	10/12/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/12/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/12/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/11/2024 Sampling Date: 10/10/2024

Reported: 10/15/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 65 1 (H246199-08)

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	10/14/2024	ND	1.95	97.3	2.00	4.37	
Toluene*	<0.050	0.050	10/14/2024	ND	1.99	99.4	2.00	4.61	
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.01	101	2.00	4.53	
Total Xylenes*	<0.150	0.150	10/14/2024	ND	6.01	100	6.00	4.47	
Total BTEX	<0.300	0.300	10/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	224	16.0	10/14/2024	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	10/12/2024	ND	212	106	200	0.905	
DRO >C10-C28*	<10.0	10.0	10/12/2024	ND	203	101	200	0.990	
EXT DRO >C28-C36	<10.0	10.0	10/12/2024	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Notes and Definitions**

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



e: Ensolum, LLC er: Tracy National Parks H	Hillard			P.O. #:	ENT PAR	Frecay	-	$\exists$		ANALYSIS	_YSIS	KEQUEST	— JES	-	1
er: Tracy National Parks H	laid			P.O. #:	(To Pa	DEAN						_		_	_
National Parks H				Company: )	To Pa	MASO	_	_					_	_	_
the Carlehad				J. f. modilion	10 11	1601	_	_							
ity. variousus	State: NM Z	Zip: 88220		Attn: Colton Brown	ON BR	NW						_			_
hone #: 575-937-3906	Fax #:			Address: 3/04 E. Greene St.	OMEG	eene y.								_	_
roject #: 03C/SS8346	Project Owner:		-	city: Cal	Carlsbad		_					_		_	
	TD Pad D		16	State: NM Zip: 88220	Zip: 88	220		_						_	_
ب س لع	-103,86489	P 8		Phone #: 575 - 488 - 2390	75-488	-3390	_					_	_		
ampler Name: MACIO Socti	ろごく			Fax #:			_	5				_	_		
		P.	MATRIX	PRESERV	SAMPLING	LING		de	0						_
Lab I.D. Sample I.D.	Depth (feet)	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME	BTEX	Chloria	Chacit				-		
1 5mos	- 0		77	< <	10/10/24	1324	17	66							
*	1	-	5	<		1348	7	7					-		
4 6561	1	-	7	<		1350	1	1				-	+		
5 FS62	1	1		<		(417	-	5				-	+		
6 6863	1	-	7	<		350	1	1				-	-		
7 5564		-		_		1353	7	1					+		
8 FS65	-	-	<	<	<	1415	3	1							
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable ervice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substations.	client's exclusive remedy for any ser cause whatsoever shall be de- nsequental damages, including w	claim arisin emed waivs thout limita	ng whether based in contract o ed unless made in writing and i ation, business interruptions, los	r tort, shall be limited received by Cardinal ass of use, or loss of p	to the amount pak within 30 days after profils incurred by c	ount paid by the client for the ays after completion of the a red by client, its subsidiaries,	e applicable								
Relinquished By:	Date: 10/10/24	Receiv	13 .1	19	-75	Verbal Result: ☐ Yes ☐ No Add'I Phone #: Aji Results are emailed. Please provide Email address: + }ाเผโป @ ยกรอๅผพ. เจฑ / น + hom ใรอก ฆ สกรอ	ult:  are emai @ en5c	☐ Yes nailed. Plea [50]иМ.С.	□ No ase prov	Add'I Phone #: ide Email addres hom (son & an	Phone # ail addr sen & e	usolmu	com/	Verbal Result: □ Yes □ No  Add'I Phone #: All Results are emailed. Please provide Email address: + หัวไปลับ อี อกรอบผพ. เจต / K +hoM ใรอก อี อกรอบผพ, com/ คระเห;รอิอกรอบผพ	tensoum, com
Relinquished By:	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Necen	Shodeign	0	9	Encident: 14869 A11163140	Cos	437	06618911120 her: Jatvaz.	440	51100				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	0 0	32.	Sample Condition Cool Intact Pres 1 Yes	^	(Initials)	Turnaround Time:	Time:		Standard [Rush [		Bacteria (on Cool Intact	Sacteria (only) ool Intact  Yes Yes	Observ	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	) 0



October 29, 2024

TRACY HILLARD ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 10/25/24 12:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024 Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 43 4' (H246514-01)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	80.0	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024

Reported: 10/29/2024 Project Name: PLU 22 DTD PAD D

Project Number: 03C1558346

Project Location: XTO 32.20997,-103.86489

ma/ka

Sampling Date: 10/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: FS 44 4' (H246514-02)

RTFY 8021R

BIEX 8021B	mg	<sup>и</sup> кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	240	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Applyzod By: 14

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

XTO 32.20997,-103.86489

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Sample ID: FS 51 4' (H246514-03)

Project Location:

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	64.0	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.20997,-103.86489

ma/ka

### Sample ID: FS 52 4' (H246514-04)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	111 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.20997,-103.86489

ma/ka

### Sample ID: FS 53 4' (H246514-05)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03C1558346 Sample Received By:

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 54 4' (H246514-06)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 55 4' (H246514-07)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	< 0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	16.0	16.0	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Frence



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Reported: 10/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.20997,-103.86489 Sampling Date: 10/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: FS 56 4' (H246514-08)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 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	10/28/2024	ND	400	100	400	7.69	
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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

XTO 32.20997,-103.86489

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Sample ID: FS 57 4' (H246514-09)

Project Location:

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	64.0	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: FS 58 4' (H246514-10)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	16.0	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.20997,-103.86489

### Sample ID: SW 06 0-4' (H246514-11)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 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	48.0	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.20997,-103.86489

### Sample ID: SW 07 0-4' (H246514-12)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	32.0	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.20997,-103.86489

### Sample ID: SW 08 0-4' (H246514-13)

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	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	48.0	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.20997,-103.86489

mg/kg

### Sample ID: SW 09 0-4' (H246514-14)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	224	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

# Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/25/2024 Sampling Date: 10/24/2024

Reported: 10/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: XTO 32.20997,-103.86489

# Sample ID: SW 10 0-4' (H246514-15)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	9.24	
Toluene*	<0.050	0.050	10/25/2024	ND	2.26	113	2.00	7.57	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.29	114	2.00	8.22	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	7.08	118	6.00	7.05	
Total BTEX	<0.300	0.300	10/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	240	16.0	10/28/2024	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	10/26/2024	ND	203	102	200	2.53	
DRO >C10-C28*	<10.0	10.0	10/26/2024	ND	182	90.9	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/26/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

# **Notes and Definitions**

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, 110005, 1111	EAV (575) 393-2476		ANALYSIS RI	REQUEST
6	AX (3/3) 333 =	BILL TO	- 1	
company Name: Elisoidiii, LEO		P.O. #:		
roject Manager: Tracy Hillard		Company: XTO Energy		
Address: 3122 National Parks Hwy		Attn: Colton Brown		
City: Carlsbad	State: NM ZIP: COLLEGE	Address: 3104 E Greene St		
Phone #: 575-937-3906	Fax #:	City: Carlsbad		
Project #: 03C1558346	Project Owner:			
Project Name: PLU 22 DTD Pad D		# 5		
Project Location: 32.20997, -103.86489	6489	Fax #:		
Sampler Name: Mario Sarkis	MATRIX	L		
Lab I.D. Sample I.D.	(feet)  AB OR (C)OMP. INTAINERS DUNDWATER STEWATER		BTEX TPH Chlorides	
HAMINSIU	(G)F	SL OT AC	307 000	
F	1 1 1		307 / / /	
257	112 11		1 1 1 0(5)	
	1 0 1		313 VVV	
5 £553	2	/	315 V V V	
6 F384	1 611		315 V V V	
8 E356	4 6		317 / / /	
9 1557	1 2 1	was chall be limited to the amount paid by		
PLEASE NOTE: Liability and Damages. Cardinal's liability  At Horizon including those for negligence and ar	stient's exclusive remedy for any claim arising what it is exclusive remedy for any claim arising what cause whatsoever shall be deemed waived unit cause whatsoever shall be deemed waithout limitation.	writing and received by Cardinal within 30 days after counting and received by Cardinal within 30 days after counting and received by client ruptions, loss of use, or loss of profits incurred by client ruptions, loss of use, or loss of profits incurred by client ruptions.		
service. In no event shall Cardinal be lable for Inodential or con- service. In no event shall Cardinal be lable for Inodential or con- service. In no event shall Cardinal out of or related to the performan Relinquished By:	or consequence continues by Cardinal, repartiless of whether such cash is a community of services bereather by Cardinal Received By:    Date:   Received By:   Received By:	Codrignes A	emailed. Please pl CMS/UM.Lam	K+hum/Son Censolum, com
Relinquished By:	Date: Received By:	0	01	Ractoria (only) Sample Condition
Delivered By: (Circle One)	To Same Tampe S. A.	ct (Initials)	18 48 H	ntact Observed Temp. °C  Yes  No Corrected Temp. °C
Sampler - UP3 - Dus - Committee	† Cardinal cannot accept ver	bal changes. Please email chan	ges to celey.keene@cardinallabsnm.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Tamp. CA. UC HYes H	Intact (Initials)  SHYES ON No No CHECKED BY: (Initials) (Initials	Push 48 + 1	0 0

Relinquished By:

Time OF Date: Time:

Received By:

10/25/21

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

service. In no event shall Cardinal be liable analyses. All claims including those for

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

			١		-				ANALYSIS REQUES
Company Name: Ensolum, LLC	Ensolum, LLC				BIL	BILL 10	1	1	- 1
Project Manager:	Tracy Hillard				P.O. #:				
Address: 3122 Na	Address: 3122 National Parks Hwy				Company: X	XTO Energy			
City: Carlsbad		State: NM	Zip: 88220		Attn: Colton Brown	Brown	_	_	
Phone #: 575-9	575-937-3906	Fax #:			Address: 31	3104 E Greene St.			
	03C1558346	Project Owner:	ה		City: Carlsbad	ad	_	_	
ame:	PLU 22 DTD Pad D				State: NM	Zip: 88220			
	22 20007 -103 86489	489			Phone #: 57	575-988-2390	_		
Project Location.		-					_		
Sampler Name:	Mario Sarkis				Fax #:	CAMPI INC	_	_	
FOR LAB USE ONLY			IP.	MAIRIX	TAROUNA				
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OM	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:		BTEX	Chlorides	
The total	30 MS	4-0	0	0	5	PESI 46/12/01	1	1	
-10	5007	0-4	7	-	-	1324	<	-	
13	SWOS	0-4	7		<	apei	<	1	
14	Swog	10-4	7		<	1500	1	-	
5	SWID	0-4	0	<	<	1330	<	<	
PLEASE NOTE: Liability and	d Damages, Cardinal's liability and	dient's exclusive remedy for	any claim ;	arising whether based in contract	or tort, shall be limited t	Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	the		

Cool Intact

HYPES HYPES

No No Sample Condition

CHECKED BY:

Page 19 of 19

thillord Censoum, com/ Wthompson Censoum, com

REMARKS:

Incident Number: nAPP2411631990

Cost Center: 2242511001

Mandard

Cool Intact

☐ Yes ☐ Yes ☐ No ☐ No

Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C

146h

All Results are emailed. Please provide Email address:

Verbal Result:

☐ Yes

□ No

Add'l Phone #:



**APPENDIX C** 

September 10, 2024, Remediation Work Plan



September 10, 2024

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

Re: Remediation Work Plan

Poker Lake Unit 22 DTD Pad D Incident Number NAPP2411631990 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 the site assessment, delineation and soil sampling activities completed to date and propose a work plan to address waste-containing soil identified at the Poker Lake Unit 22 DTD Pad D (Site). The purpose of the remediation activities was to determine the presence or absence of impacted and/or waste-containing soil resulting from a produced water release at the Site. The following *Work Plan* proposes to confirm depth to groundwater via temporary soil boring and remove waste-containing soil identified within the release extent.

# SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 22, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20997°, -103.86489°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 9, 2024, a pump failure resulted in the release of 18 barrels (bbls) of produced water into a temporary lined containment area, onto the pad surface, and into the adjacent pasture area. No fluids were recovered. XTO submitted an Initial C-141 Application (C-141) on April 25, 2024. The release was assigned Incident Number NAPP2411631990.

# 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 and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On March 26, 1959, a USGS groundwater monitoring well (USGS 321203103511801) was measured and recorded with a depth to groundwater as 423.1 feet bgs. The total depth of the well is 474 feet bgs. The location of the well is approximately 0.83 miles southeast of the release and is depicted on Figure 1. The Well Record and Log is included in Appendix A.

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

XTO Energy, Inc. Remediation Work Plan Poker Lake Unit 22 DTD Pad D

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,873 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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 diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

# SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 9, 2024 Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided from XTO and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

On April 25, 2024, Ensolum returned to the Site to take assessment samples from within the release. Five delineation soil samples (SS01 through SS05) were collected from a depth of 0.5 feet bgs. The 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 delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

On May 21 and 22, 2024, Ensolum personnel returned to the site to oversee delineation activities. Delineation boreholes BH01 through BH04 and potholes PH01 through PH05 were advanced via hand auger and backhoe to assess the vertical extent of the release to a maximum depth of 1-foot bgs. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 1-foot bgs. Delineation soil sample PH04 was taken at the point of release below the removed temporary lined containment. Additional delineation soil samples (SS06 through SS11) were taken surrounding the release to confirm the lateral extent of the release. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

Based on field screenings, no impacted or waste-containing soil was identified in the pasture areas. Vegetation in this area appears to be healthy and not impacted by the release. In order to confirm the absense of impacted or waste-containing soil, twenty-three 5-point composite confirmation soil samples were taken from the pasture area that represented no more than 200 square feet of the release extent in an approximate 4,587 square foot area. The 5-point composite samples were collected by placing five



XTO Energy, Inc. Remediation Work Plan Poker Lake Unit 22 DTD Pad D

equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS06, and FS08 through FS24 were collected at a depth of 0.5 feet bgs. Please note FS07 was inadvertantly skipped in the sampling nomenclature. The soil samples were field screened for VOCs and chloride and mapped with a handheld GPS unit. The confirmation soil sample locations are depicted on Figure 3.

All 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, for analysis of the following contaminants 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 Standards Method SM4500.

# LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated all COCs were compliant with the Closure Criteria. All COC concentrations for terminal soil samples of the delineation boreholes and potholes were in compliance with the Closure Criteria and reclamation requirement, successfully defining the vertical extent of the release. All COC concentrations for the delineation soil samples collected outside the release extent met Closure Criteria and reclamation requirement, successfully defining the lateral extent of the release. Laboratory analytical results for all COC concentrations for composite soil samples FS01 through FS24 were in compliance with the strictest Table 1 Closure Criteria, verifying the absence of impacted or waste-containing soil in the pasture area. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

# PROPOSED REMEDIATION WORK PLAN

In order to confirm depth to groundwater is greater than 100 feet bgs at the Site, XTO proposes to advance a soil boring to a depth of 105 feet bgs. The soil boring will be located within 0.5 miles of the Site and a field geologist will log and describe soils continuously. The soil boring will be left open for over 72 hours to allow for equilibration of groundwater levels within the temporary boring casing. After the 72-hour waiting period, depth to groundwater will be assessed and the soil boring will be backfilled following New Mexico Office of the State Engineer (NMOSE) approved procedures. A well record or soil boring log will be included in the follow-up Closure Report.

The delineation soil sampling results indicate soil containing elevated chloride concentrations exist on pad across an approximate 18,800 square foot area and extends to depths ranging from 0.5 feet to 1-foot bgs. As such, XTO proposes to complete the following remediation activities:

- Excavation of waste-containing soil to a depth of 1-foot bgs. Excavation will proceed laterally
  until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria
  and reclamation requirement.
- The area below the temporary lined containment that has been removed will be composite sampled to confirm the absence of waste-containing soil. If waste-containing soil is located, it will be included in the excavation area increasing the total area by 4,335 square feet and total volume by 160 cubic yards.
- Due to the estimated size of the excavation, XTO requests a variance for the frequency of confirmation soil samples. XTO proposes five-point composite samples to be collected at a sampling frequency of 400 square feet along the excavation floor and a sampling frequency of



XTO Energy, Inc. Remediation Work Plan Poker Lake Unit 22 DTD Pad D

200 square feet along the excavation sidewalls. The proposed sampling frequency would reduce the total amount of samples from approximately 118 samples (200 square feet) to approximately 62 samples. The soil samples will be handled as described above and analyzed for all COCs. The 200 square foot and 400 square foot sampling grids are depicted in Figure 4a and Figure 4b, respectively, based on the proposed excavation extent.

- An estimated 700 cubic yards of waste-containing soil will be excavated and disposed of at the R360 disposal facility in Hobbs, New Mexico.
- The excavation will be backfilled with locally procured material and recontoured to match preexisting conditions.
- Vegetation in the pasture area of the release will continue to be monitored and may be re-seeded as necessary.

XTO plans to drill the depth to water boring in November 2024, once the schedule is confirmed with the licensed drillers. 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.

ashley L. ager

**Program Director** 

Ashley Ager, PG, MS

Sincerely, **Ensolum, LLC** 

Tracy Hillard Staff Engineer

CC:

Tought Hard

Amy Ruth, XTO

Amanda Garcia, XTO

BLM

# Appendices:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Confirmation Soil Sample Locations

Figure 4a Proposed Excavation Extent with 200 Square Foot Sampling Grid Figure 4b Proposed Excavation Extent with 400 Square Foot Sampling Grid

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

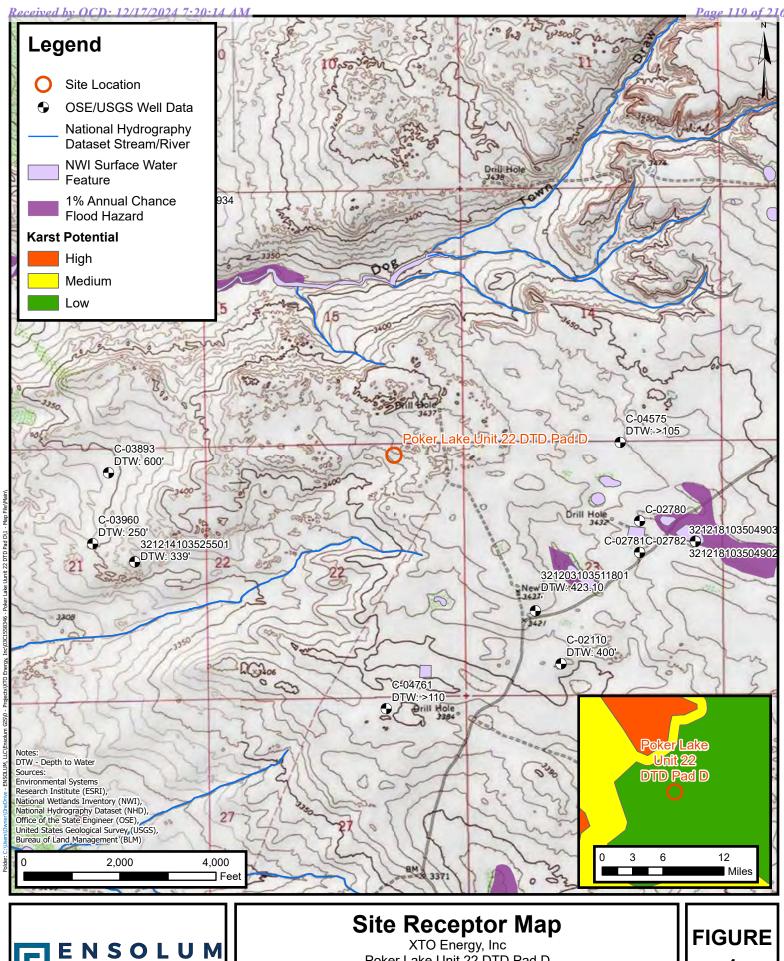
Appendix C Lithologic / Soil Sampling Logs

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





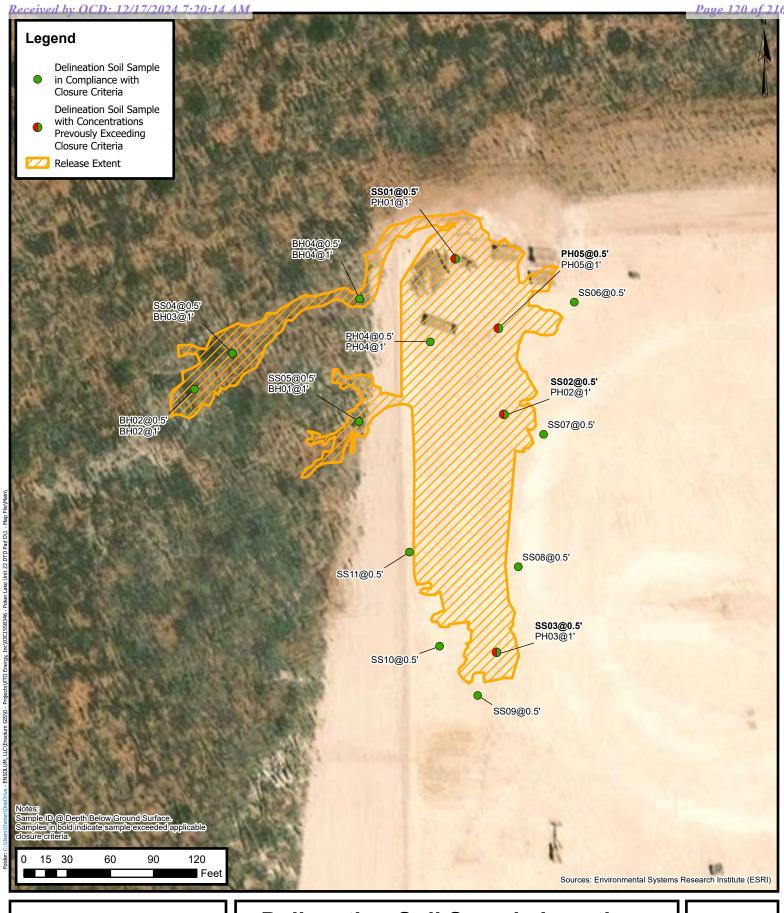
**FIGURES** 





Poker Lake Unit 22 DTD Pad D Incident Number: NAPP2411631990 Unit B, Sec 22, T24S, R30E Eddy County, New Mexico

Released to Imaging: 12/23/2024 2:07.52 PM

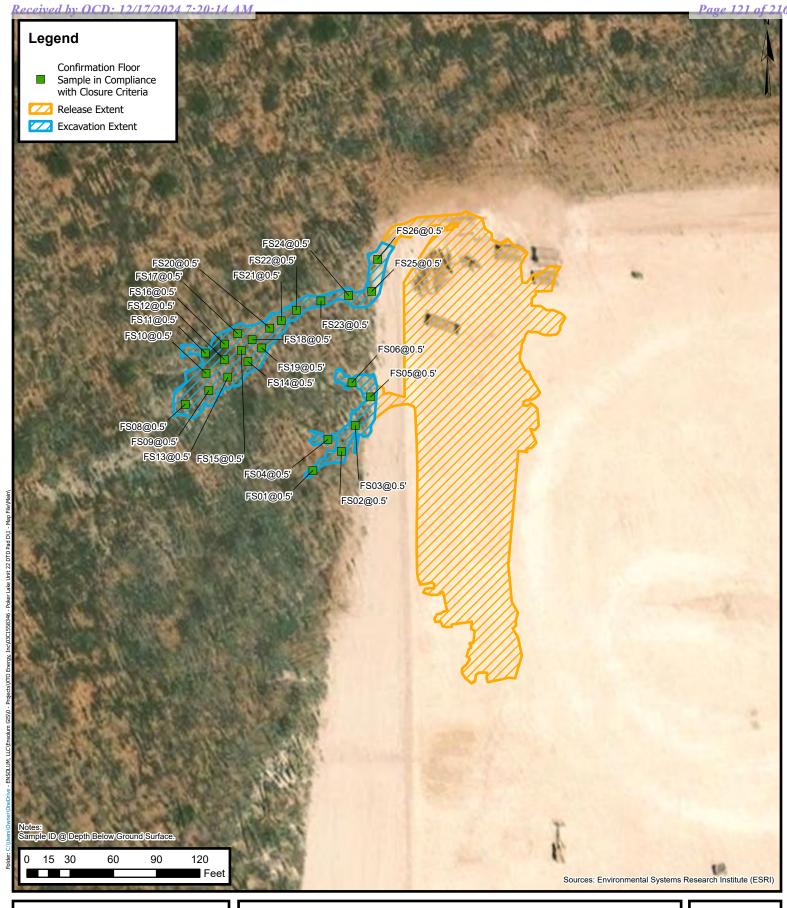




# **Delineation Soil Sample Locations**

XTO Energy, Inc Poker Lake Unit 22 DTD Pad D Incident Number: nAPP2411631990 Unit B, Sec 22, T24S, R30E Eddy County, New Mexico FIGURE 2

Released to Imaging: 12/23/2024 2:07.52 PM

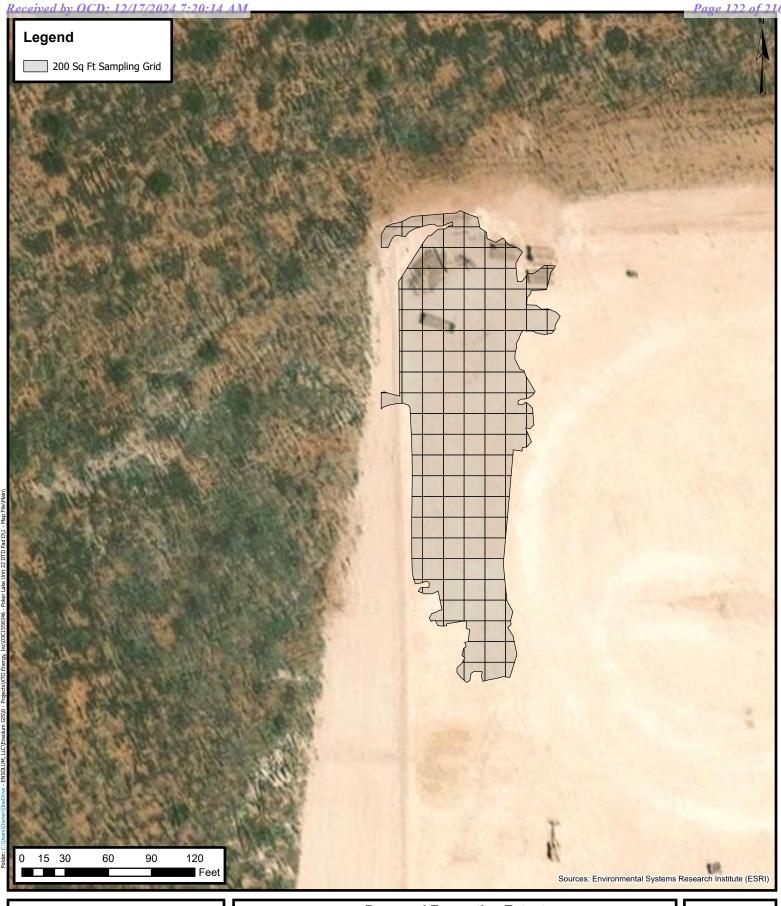




# **Confirmation Soil Sample Locations**

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 3

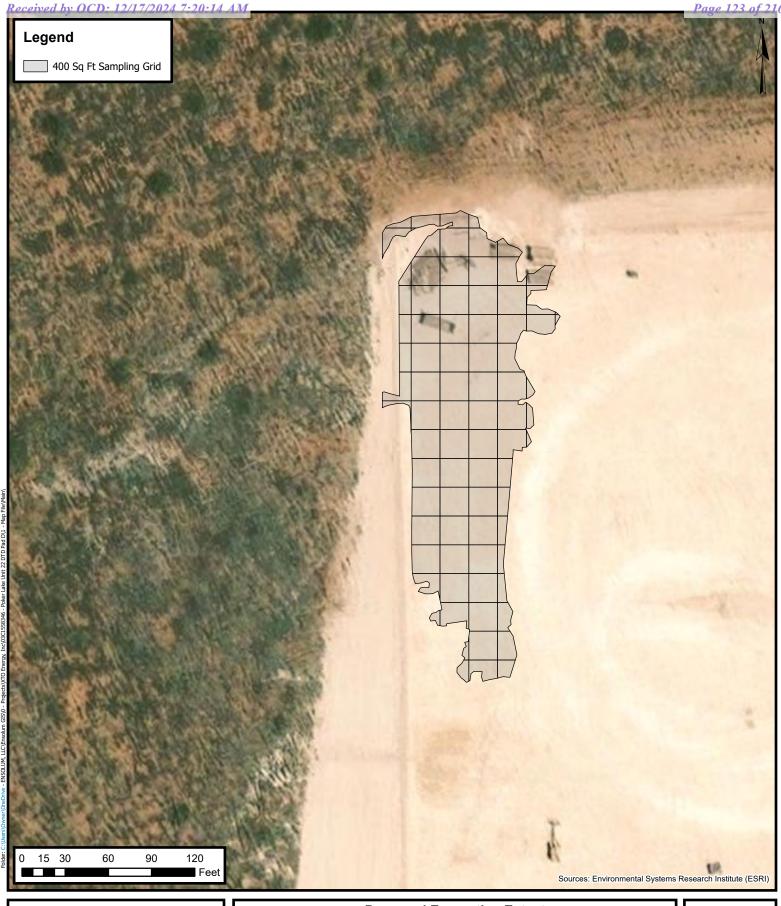




Proposed Excavation Extent with 200 Square Foot Sampling Grid

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 4a





Proposed Excavation Extent with 400 Square Foot Sampling Grid

XTO Energy, Inc
Poker Lake Unit 22 DTD Pad D
Incident Number: nAPP2411631990
Unit B, Sec 22, T24S, R30E
Eddy County, New Mexico

FIGURE 4b



**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD Pad D 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 (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples				
SS01	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,360
PH01	05/22/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02	04/26/2024	0.5	<0.050	<0.300	<10.0	34.1	<10.0	34.1	34.1	1,300
PH02	05/22/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS03	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
PH03	05/22/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS04	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH03	05/21/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS05	04/26/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH01	05/21/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS06	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS07	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS08	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS09	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS10	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS11	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH02	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH02	05/21/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH04	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
BH04	05/21/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH04	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
PH04	05/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
PH05	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,260
PH05	05/22/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
				Confi	rmation Soil Sa	ımples				
FS01	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS04	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256

Ensolum

1 of 2



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD Pad D XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS05	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS06	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS08	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS09	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS10	05/21/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS11	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS12	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS14	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS15	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS16	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS17	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS18	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS19	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS20	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS21	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS22	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS23	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS24	05/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in  ${\bf bold}$  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



**USGS Home Contact USGS** Search USGS

**National Water Information System: Web Interface** 

**USGS** Water Resources



### Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

# Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 321203103511801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 321203103511801 24S.30E.23.3124143

Eddy County, New Mexico Latitude 32°12'03", Longitude 103°51'18" NAD27

Land-surface elevation 3,423 feet above NAVD88

The depth of the well is 474 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

# **Output formats**

Table of dat	t <u>a</u>									
<u>Tab-separat</u>	ted data									
Graph of da	ata									
<u>Reselect pe</u>	riod									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measure
1959-03-2	.6	D	62610		2998.18	NGVD29	1		Z	
1959-03-2	6	D	62611		2999.90	NAVD88	1	L	Z	
1959-03-2	6	D	72019	423.10			1	L	Z	

Explanation
-------------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined

Section	Code	Description
Water-level approval status	Α	Approved for publication Processing and review completed.

<u>Questions or Comments</u> <u>Help</u> <u>Data Tips</u>

Explanation of terms
Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels** 

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-07-03 12:20:34 EDT

0.39 0.37 nadww02

USA.gov



**APPENDIX B** 

Photographic Log



# **Photographic Log**

XTO Energy, Inc Poker Lake Unit 22 DTD Pad D NAPP2411631990



Date & Tutter - Utu. Apr 25, 2024 at 12:09-33 MDT
Pestinar - 4012-209-225\* / - 103.864495\* (±515.31)
Altrodia-3646h + (±0.1th
Datem: W05-39
Astrodia-3646h + (±0.1th
Datem: W05-39
Astrodia-3646h
Hensen Analos - 40.45
Hensen Analos - 40.45
BLUSS DTD Faul 5.

Photograph: 1 Date: 4/9/2024

Description: Soil staining in release footprint

View: North

Photograph: 2 Date: 4/25/2024

Description: Delineation sampling activities

View: Southwest





Photograph: 3 Date: 5/21/2024

Description: Confirmation sampling activities

View: Southeast

Photograph: 4 Date:5/22/2024

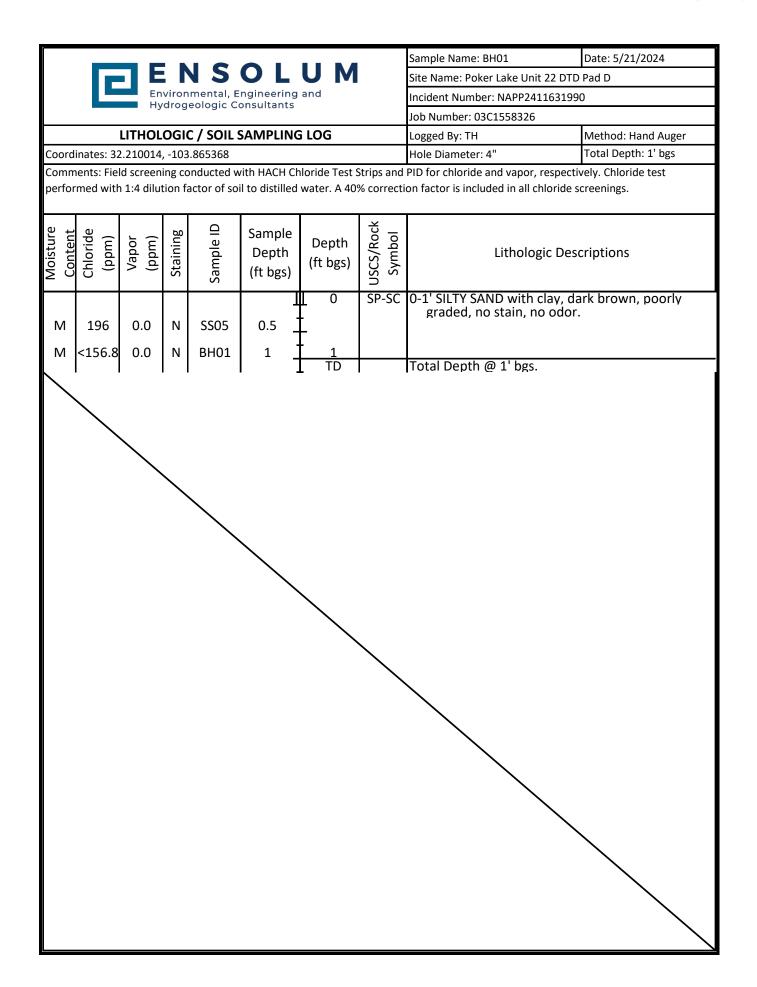
Description: Delineation activities

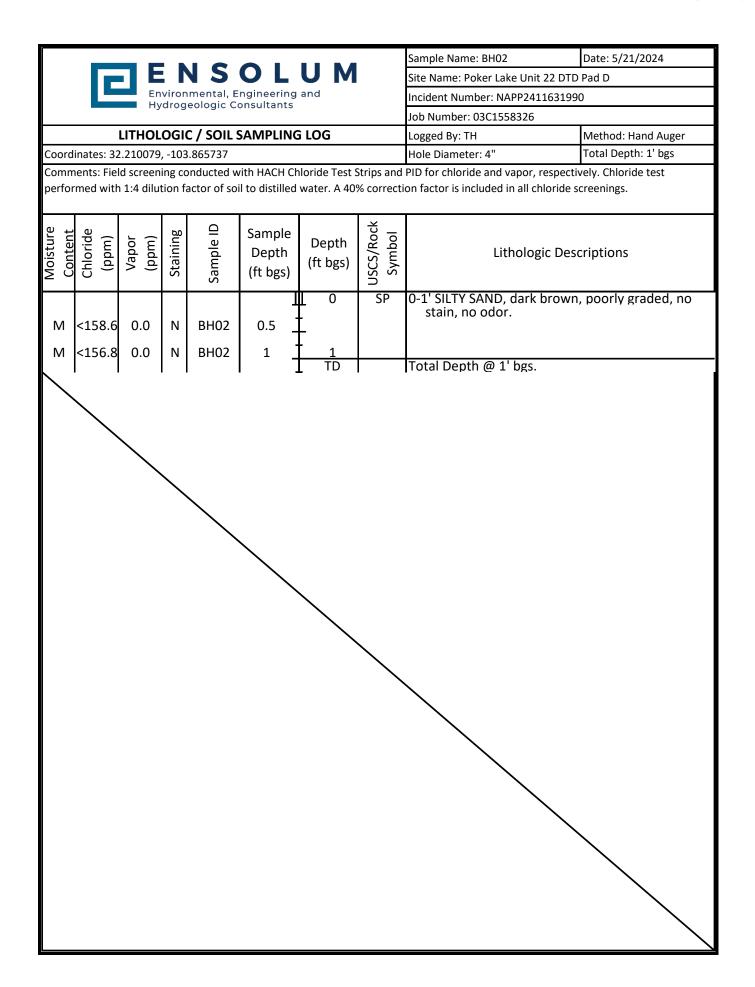
View: Northwest

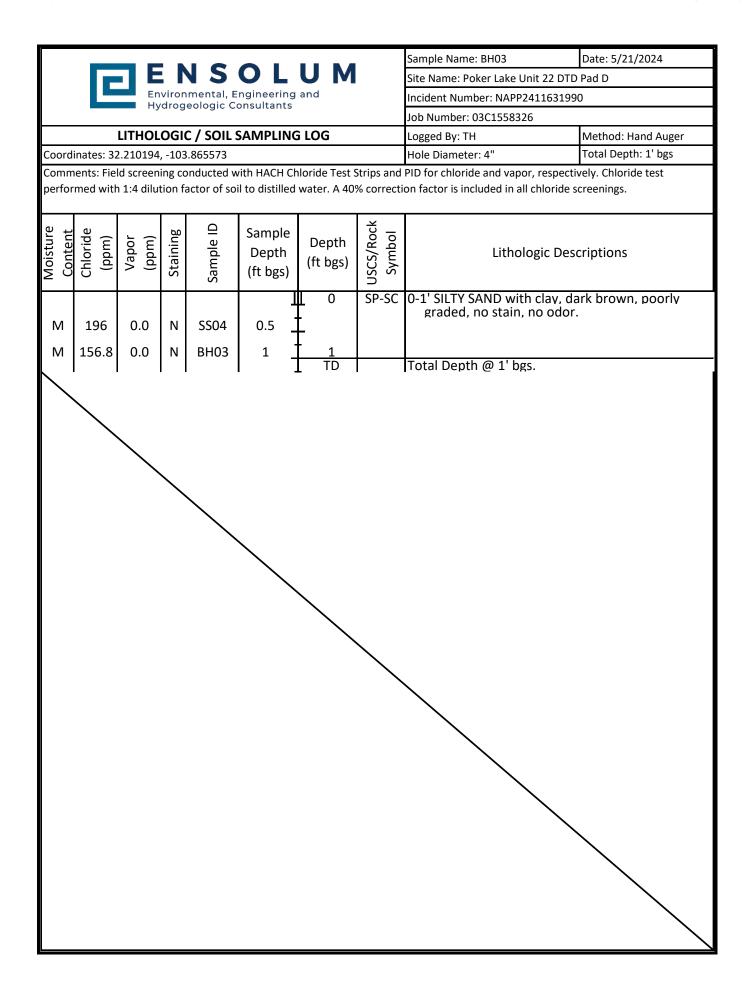


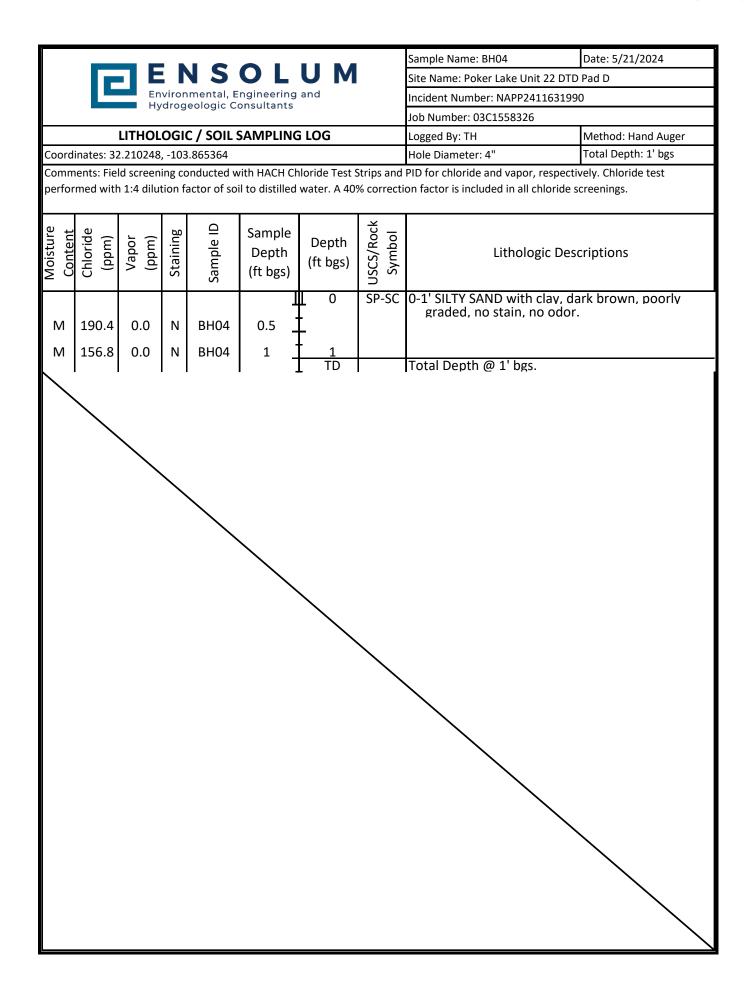
APPENDIX C

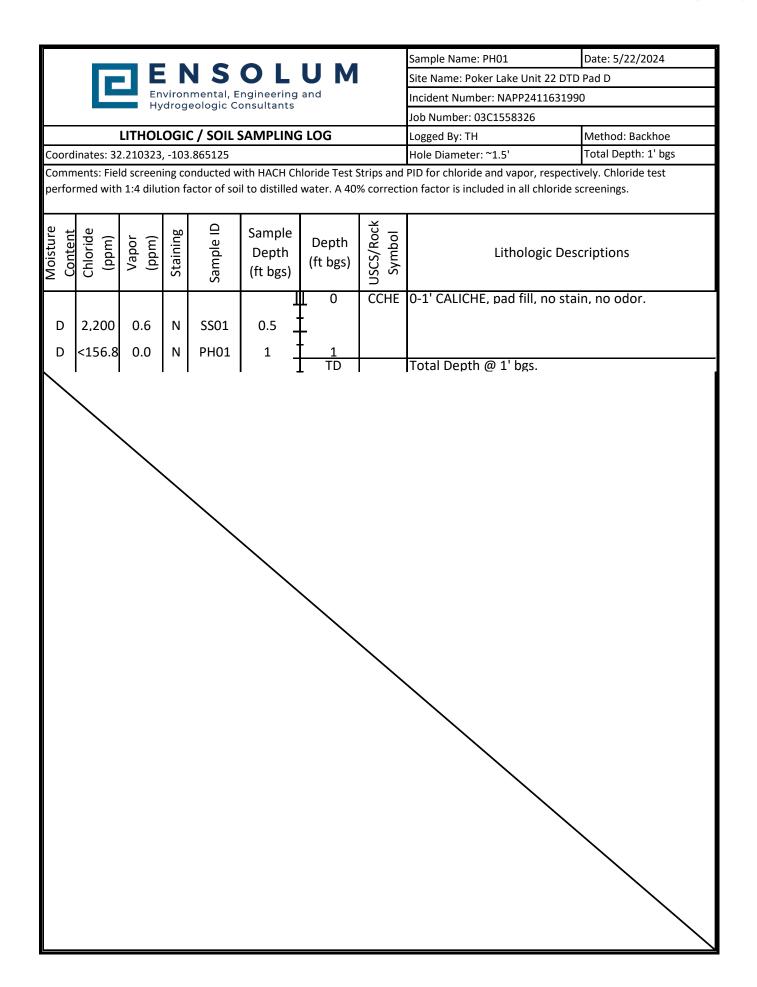
Lithologic Soil Sampling Logs

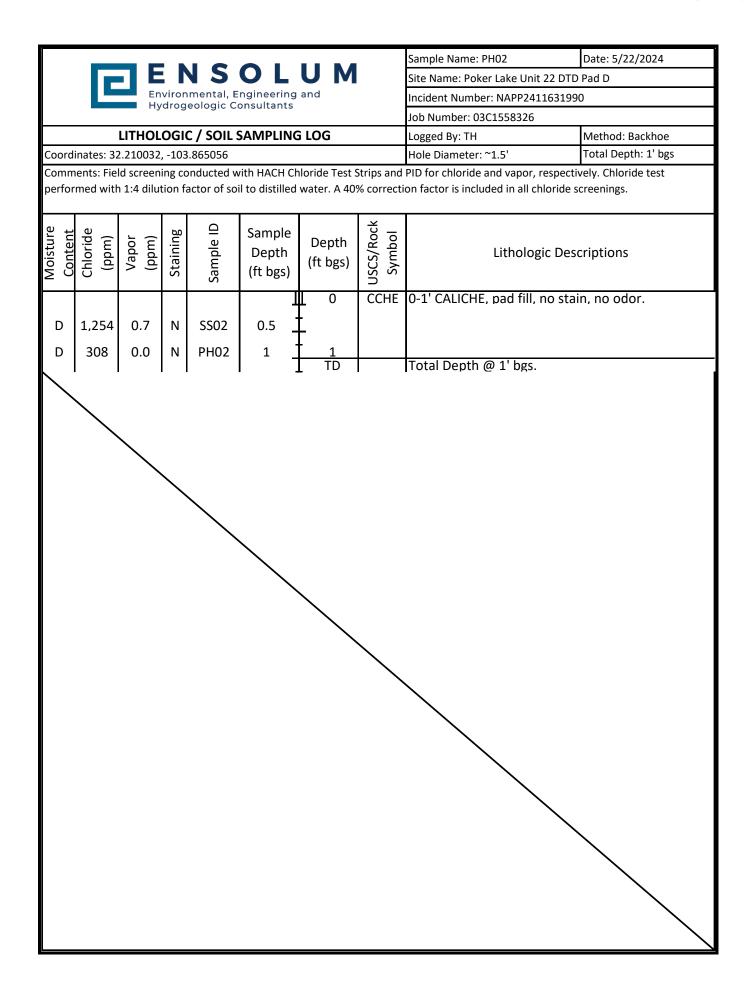


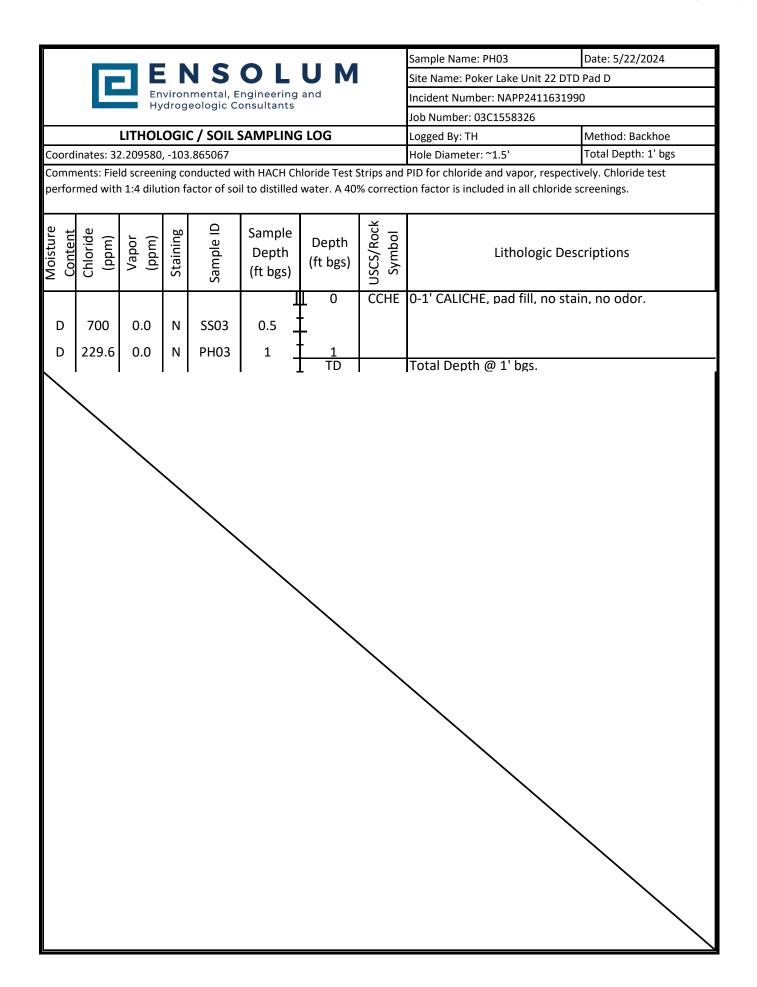


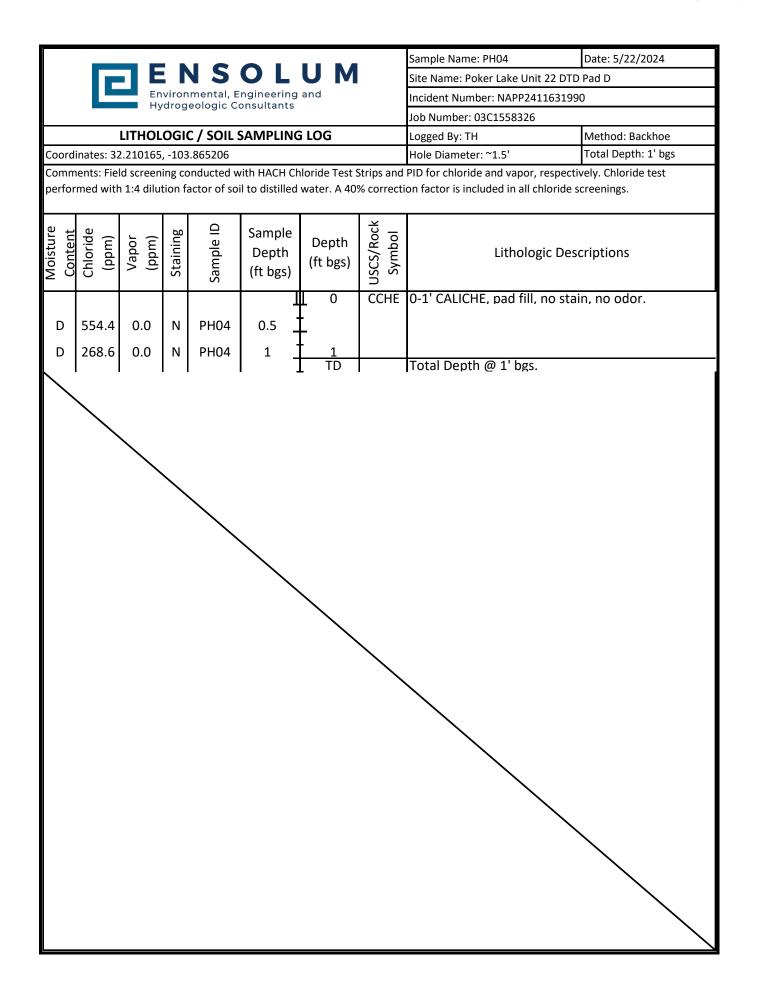


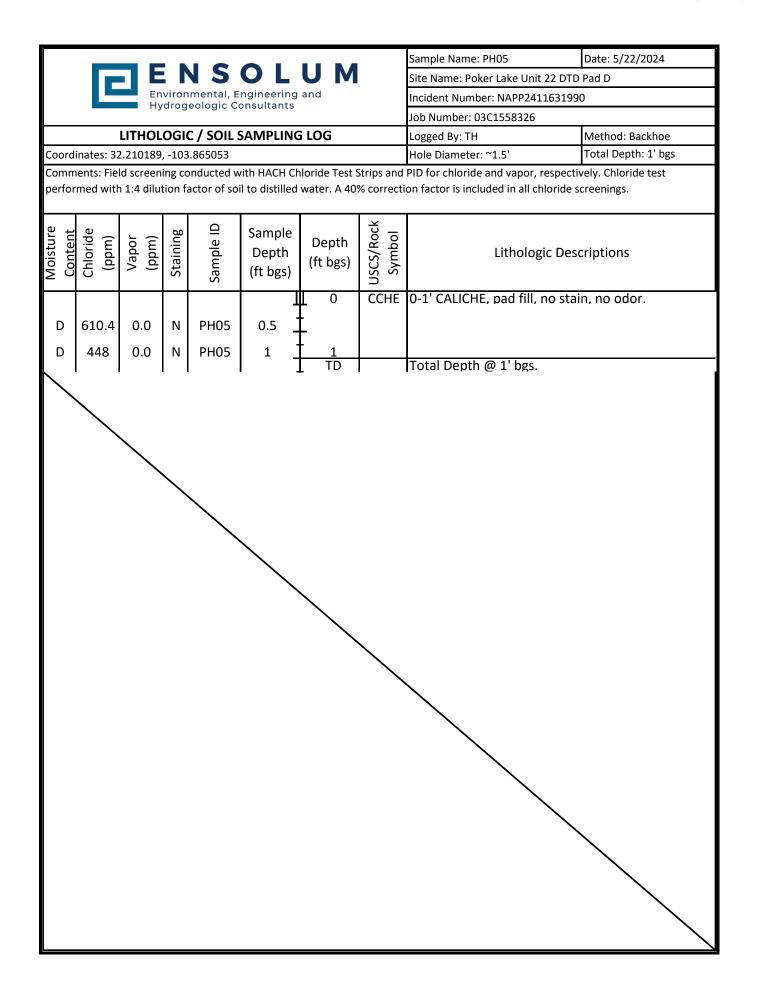














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 02, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 04/26/24 13:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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



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

# Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 04/26/2024 Reported: 05/02/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Shalyn Rodriguez

# Sample ID: SS 01 0.5' (H242245-01)

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	04/30/2024	ND	2.22	111	2.00	5.78	
Toluene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	4.41	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	112	2.00	4.29	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.82	114	6.00	3.97	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	2360	16.0	04/30/2024	ND	432	108	400	7.69	
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	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 04/26/2024 Reported: 05/02/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: SS 02 0.5' (H242245-02)

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	04/30/2024	ND	2.22	111	2.00	5.78	
Toluene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	4.41	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	112	2.00	4.29	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.82	114	6.00	3.97	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 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	1300	16.0	04/30/2024	ND	432	108	400	7.69	
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	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	34.1	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.3	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



04/25/2024

Soil

### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 04/26/2024 Sampling Date:
Reported: 05/02/2024 Sampling Type:

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Shalyn Rodriguez

Project Location: XTO

### Sample ID: SS 03 0.5' (H242245-03)

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	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	672	16.0	04/30/2024	ND	432	108	400	7.69	
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	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 04/26/2024

Reported: 05/02/2024 Project Name: PLU 22 DTD PAD D

mg/kg

Project Number: 03C1558346 Project Location: XTO Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: SS 04 0.5' (H242245-04)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/30/2024	ND	432	108	400	7.69	
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	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	71.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.7	% 49.1-14	8						

Analyzed By: JH

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

**ENSOLUM** TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 04/26/2024 Reported: 05/02/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO Sampling Date: 04/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 0.5' (H242245-05)

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	04/30/2024	ND	2.05	103	2.00	0.0123	
Toluene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.12	106	2.00	1.12	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.20	103	6.00	1.20	
Total BTEX	<0.300	0.300	04/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 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	176	16.0	04/30/2024	ND	432	108	400	7.69	
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	04/30/2024	ND	208	104	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	189	94.6	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

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  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

A Managar	(0.0) 000 0000		1		-			1						2	1
Project Manager: Tracy Hillard	Ensolum, LLC Tracy Hillard				P.O. #:	DILL 10					- 2		-	- 20	_
Address: 3122 N	Address: 3122 National Parks Hwy	Ş			Company: XTO		Energy Inc.								
city: Carlsbad	ď.	State: NM	Zip: 8	Zip: 88220	Attn: Amy Ruth	Ruth									
le #:	337 257-8307				Address: 3104 E	1	Green St.								
Project #: 03C1558346	558346	Project Owner: XTO	XTC		city: Carlsbad	ad									
Project Name: PLU 22 DTD	_U 22 DTD Pad D				State: NM	Zip: 88220	0								
Project Location:					Phone #:										
Sampler Name: Connor Whitman	Connor Whitman				Fax #:										
FOR LAB USE ONLY			_	MATRIX	PRESERV	SAMPLING	LING								
Lab I.D.	Sample I.D.	Sample Depth (feet)	G)RAB OR (C)OMP.	GROUNDWATER WASTEWATER GOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	DATE	TIME	BTEX	TPH	CHLORIDE					
1	5501	0,5'	-			4-25-24	1215	/	V		-	+	1		
0	5077		_			_	1220	1	1	1					
W	5055						1225	1	1	1		-			
the state of	10055						1230	1	1	/					
2	5055		-	4	<b>(</b>	_	1235	1	1	1		+			
			-												
										18		+			
PLEASE NOTE: Liability and analyses, All claims including service. In no event shall Card	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ient's exclusive remedy for any cause whatsoever shall be de equental damages, including v	claim an emed wa without lim	sing whether based in contra ived unless made in writing a itation, business interruption	ct or tort, shall be limited and received by Cardinal v t, loss of use, or loss of pr	to the amount paid within 30 days after rofits incurred by cli	by the client for completion of the ent, its subsidiari	the e applicables.	0			-			
Relinquished By:	d By:	Time:	Rece		/		Verbal Result:   Yes   No   Add'l Phone #:  All Results are emailed. Please provide Email address:  bbelli@eaachem.esm. TMorrissey@ensolum.com, TH	are en	☐ Yes nailed. F	☐ Yes ☐ No  Add'I Phone: ailed. Please provide Email add esm, TMorrissey@ensolum.com,	lo Ad provide ey@ens	Add'I Phone #: ide Email addre	ne #: ddress: m, TH;	ess: THillard OEnsolum.com	Erse
Relinquished By:	//	Date: 4/36/31/ Time: 1330	Rece	Received By:	Înce	5	REMARKS:	NAPP:		2411631990					
Delivered By: (Circle One)		Observed Temp.	9		1	CHECKED BY:	Turnaround Time:	d Time	,	Standard	E do	Coo	Bacteria (only) Sample Condition Cool Intact Observed Temp.	ly) S	ample Condition Observed Temp. °C
Sampler - UPS - Bus - Other		Corrected Temp.	M	D D No D I	No X	1	Correction Factor 8:3 G   H	FID A	3 3	44			Yes Yes		Corrected Temp. °C



May 29, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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. Keene

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024
Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Analyzed By MC

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 01 1' (H242874-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	48.0	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Frene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PH 02 1' (H242874-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

### Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 03 1' (H242874-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 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	272	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 04 0.5' (H242874-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PH 04 1' (H242874-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	72.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 05 0.5' (H242874-06)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	191	95.4	200	0.0335	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	193	96.4	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: PH 05 1' (H242874-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

126	FAX (5/5) 393-24/6	24 1118	ANALYSIS REQUEST
Company Name: Ensolum, LLC		BILL 10	- 1
Project Manager: Tracy Hillard	000	P.O.#:	
Address: 601 N Marienfeld Street, Suite 400	uite 400	Company: A 10 Energy	erda
City: Midland	State: TX Zip: 79701		
Phone #: 575-937-3906	Fax #:	Address: 3104 (5)	preen
325/26	Project Owner: XT	City: Carlsbad	
me: PL	lod D	State: NM Zip: 88220	
m: 32, 2099	7,-103,86489	Phone #: 432 (061-057	.057)
Hillard		Fax #:	
FOR LAB USE ONLY	1P.	MATRIX PRESERV. SAM	SAMPLING
Lab I.D. Sample I.D.	(feet) (C)OM	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 8015 BTEX 8021 Chloride 4500
		-×	A INOS XXX
305			0970
10 HO	0.5		Chbo
	_		0950
SUMO	0.5		1020
2 PHOS			1
O artis in the little of	nd client's earlissive remedy for any claim an	Contract is balle, and clien's exclusive namedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	paid by the client for the
analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or o	other cause whatsoever shall be deemed we consequental damages, including without lim	analyses. All claims including those for negligence and any other cause whatsoever shall be openine were united in the state of loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including whose interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including whose interruptions business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service in no event shall Cardinal be liable for incidental or consequental damages, including whose interruptions business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service in the consequent of the profits incurred by client, its subsidiaries, service in the consequent of the consequent o	
affiliates or successors arising out of or related to the performance Relinquished By:	Date: S-23-24 Rece	Received By:	Verbal Result:
Relinquished By:	Date: Rece	Received By:	105+ CONTY: 2242511001
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Tamp. *C	1 5 g P	Turnaround Time: Standard Bacteria (only) Sample Condition  Rush Cool Intact Observed Temp. °C  Thermometer ID #413- # 445  Correction Festor 0550- 5725bt   No   No   Corrected Temp. °C
FURM-006 R 3.2 10/0/121	† Cardinal cannot	accept verbal changes. Please email ch	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



May 29, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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. Keene

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS 06 0.5 (H242875-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	96.0	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



05/22/2024

Soil

### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date:
Reported: 05/29/2024 Sampling Type:

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact

Project Number: 03C1558346 Sample Received By: Tamara Oldaker
Project Location: XTO 32.209997-103.86489

Sample ID: SS 07 0.5 (H242875-02)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	128	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.8	% 49.1-14	'8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: SS 08 0.5 (H242875-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

PLU 22 DTD PAD D

Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS 09 0.5 (H242875-04)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 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	160	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024 Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: SS 10 0.5 (H242875-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	128	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SS 11 0.5 (H242875-06)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	2.04	102	2.00	15.1	
Toluene*	<0.050	0.050	05/26/2024	ND	2.05	103	2.00	10.3	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.09	104	2.00	8.54	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.13	102	6.00	7.95	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

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  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

### CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



May 29, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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. Keene

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BH 01 1' (H242876-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 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	144	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported:

05/29/2024 Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: BH 02 0.5' (H242876-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 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	160	16.0	05/29/2024	ND	416	104	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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	101 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1 <b>-</b> 14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/29/2024

PLU 22 DTD PAD D

Project Number: 03C1558346
Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BH 02 1' (H242876-03)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	< 0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.5	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024

Reported: 05/29/2024
Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

ma/ka

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: BH 03 1' (H242876-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Applyzod By: MC

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024
Reported: 05/29/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: BH 04 0.5' (H242876-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	240	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/29/2024 Sampling Type: Soil Project Name: PLU 22 DTD PAD D Sampling Condition: Coo

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: BH 04 1' (H242876-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	208	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	18						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FA	(575) 393-2326 FAX (575) 393-2476		ANALYSIS DECLIEST
ompany Name: Ensolum, LLC		BILL 10	
roject Manager: Track Hillard			
ddress: 601 N Marienfeld Street, Suite 400			
Sity: Midland	te: TX Zip: 79701	Attn: Amy Kuth	
hone #: 575-937-3906	Fax #: Addres	Address: 3104 Greenest	
roject #: ()3C 1558346	Project Owner: XTO City: (	city: Carlsbad	
e:	Pact D State: NW	VW Zip: 88220	
30	5,86489	Phone #: 432-661-0571	
Sampler Name: Tracy Hillard	Fax		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	TPH 8015  BTEX 8021  Chloride 4500
	1 6 1 X	0060 hz 12.5 X	- X - X
35 BHON		8160	
		0930	
S BHON	0.5	1 1 0940	
PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negligence and any of	PLEASE NOTE: Liability and Damagos. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims, including those for negligance and any other cause whatsoever shall be deemed whether unless themuptions, loss of use, or loss of profits incurred by client, its subsidiaries.	hall be limited to the amount paid by the client to by Cardinal within 30 days after completion of e, or loss of profits incurred by client, its subsidi	the applicable Tu
Relinquished By:	ance of services hereunder by Cardinal, regardless of whether such claim is based of S-23-24 Received By:	upon any of the above stated rescons of orderwee.  Verbal Result:  All Results are  BBeiil@ensol	Werbal Result:   Yes   No   Add'I Phone #:  All Results are emailed. Please provide Email address:  BBeliil@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
Relinquished By:	Date: Received By:	REMARY COST	1001
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. *C / 9 Sample Condition Coorrected Temp. *C Yes Yes  No No	(Initials) Thermom	Turnaround Time: Standard Bacteria (only) Sample Condition  Rush Cool Intact Observed Temp. °C  Thermometer ID #443 # (446
FURM-006 R 3.2 10/0/1/21	5	. Please email changes to	eley.keene@cardinallabsnm.com



May 30, 2024

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD PAD D

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 13:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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. Keene

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, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 0.5 (H242877-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	48.0	16.0	05/29/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil Project Name: PLU 22 DTD PAD D

Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 02 0.5 (H242877-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	< 0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	91.0 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 03 0.5 (H242877-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 04 0.5 (H242877-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 05 0.5 (H242877-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 06 0.5 (H242877-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

### Sample ID: FS 08 0.5 (H242877-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	206	103	200	0.718	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	203	101	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/21/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 09 0.5 (H242877-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.92	96.2	2.00	18.8	
Toluene*	<0.050	0.050	05/25/2024	ND	1.90	94.9	2.00	14.2	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	1.97	98.6	2.00	14.8	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	6.00	100	6.00	14.7	
Total BTEX	<0.300	0.300	05/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



05/21/2024

Soil

### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date:
Reported: 05/30/2024 Sampling Type:

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: XTO 32.209997-103.86489

ma/ka

### Sample ID: FS 10 0.5 (H242877-09)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 11 0.5 (H242877-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	6 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported:

05/30/2024 PLU 22 DTD PAD D 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 12 0.5 (H242877-11)

Project Name:

Project Number:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



05/22/2024

Soil

### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024

Reported: 05/30/2024 Sampling Type:

Project Name: PLU 22 DTD PAD D Sampling Condition:

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 13 0.5 (H242877-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 14 0.5 (H242877-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



05/22/2024

### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date:

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C1558346 Sample Received By:

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 15 0.5 (H242877-14)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024 Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 16 0.5 (H242877-15)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 17 0.5 (H242877-16)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact

Tamara Oldaker Project Number: 03C1558346 Sample Received By: Project Location: XTO 32.209997-103.86489

### Sample ID: FS 18 0.5 (H242877-17)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: XTO 32.209997-103.86489

ma/ka

### Sample ID: FS 19 0.5 (H242877-18)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558346 Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 20 0.5 (H242877-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	104 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 %	6 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024

Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 21 0.5 (H242877-20)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D
Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489

Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 22 0.5 (H242877-21)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	< 0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/29/2024	ND	416	104	400	10.9	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	96.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Sampling Date: 05/22/2024
Reported: 05/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD PAD D Sampling Condition: Cool & Intact
Project Number: 03C1558346 Sample Received By: Tamara Oldaker

Project Location: XTO 32.209997-103.86489

### Sample ID: FS 23 0.5 (H242877-22)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/30/2024	ND	416	104	400	0.00	
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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC TRACY HILLARD 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 05/23/2024 Reported: 05/30/2024

Project Name: PLU 22 DTD PAD D Project Number: 03C1558346

Project Location: XTO 32.209997-103.86489 Sampling Date: 05/22/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 24 0.5 (H242877-23)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2024	ND	1.90	94.9	2.00	23.9	
Toluene*	<0.050	0.050	05/26/2024	ND	1.98	99.1	2.00	23.0	
Ethylbenzene*	<0.050	0.050	05/26/2024	ND	2.06	103	2.00	22.3	
Total Xylenes*	<0.150	0.150	05/26/2024	ND	6.34	106	6.00	22.0	
Total BTEX	<0.300	0.300	05/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/30/2024	ND	416	104	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	05/24/2024	ND	187	93.4	200	0.623	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	205	103	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	(3/3) 393-2320	FAX (3/3) 393-24/6	1/6				
Doing Marine. Ensoluti, LLC	Elisoidili, ELC			BILL TO			ANALYSIS REQUEST
Address 601 N	arienfold Stre	et Suite Ann		Y TO T		_	
City: Midland		State: TX	Zip: 79701		the state of		
Phone #: 575	-937-3906	Fax #:		7	Greens St	_	
Project #: 03C 558346	1558346	Project Owner:	YTO	9			
Project Name:	PLU 22 DTI	S Pad D			220		
<b>Project Location</b>	Project Location: 32, 30997	,-103.86489	q	#.4	1.0571		
Sampler Name: Tracy Hillard	Tracy Hillard			Fax #:			
FOR LAB USE ONLY				PRESERV. SAM	SAMPLING		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH 8015	BTEX 8021 Chloride 4500	
, , ,	fso1	2,0	- ×	× 5	N	X	
e	F502	2.0	-		1 0211	-	
e W	TS03	20.5			\$21		
ζ,	F305	0.5	-		135		
6	F506	0:5	200		1140		
27	150X	0.0	2		1150		
9	£210	5.0	202	-	002	-	
PLEASE NOTE: Liability and analyses. All claims including	Damages, Cardinal's liability a	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cla analyses. All claims including those for negligence and any other cause whatenever thall be resem-	y claim arising whether based in contract or tort, shall be limited to the	t or loft, shall be limited to the amount pa			
service. In no event shall Ca affiliates or successors arising	Cardinal be liable for incidental or sing out of or related to the perform	consequental damages, including mance of services hereunder by Ca	lages, including without limitation, business insure it wining and received by Jeauna within 30 hages, including without limitation, business interruptions, loss of use, or loss of profits inco. thereunder by Cardinal, isgandless of whether such claim is based upon any of the above	service. In no event shall Cardinal be liable for incidental or consequental damages, including without imaters users as the service and the applicat service. In no event shall Cardinal be liable for incidental or consequental damages, including without imaters users users as the consequent of the applications, to see the case of the consequental damages. Including without imaters users as the consequent of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		ë	
Trud	tillal	Times 3301	Received By:	Make	Verbal Result: All Results are em BBelill@ensolum	☐ Yes ☐ nailed. Pleasecom, TMorris	Verbal Result:
Rélinquished By:		Date:	Received By:		REMARKS OAND 24116	1001157 HOST	51(00)
Delivered By: (Circle One) Sampler - UPS - Bus - Otl	lircle One) Bus - Other:	Observed Temp. °C	1.9 Sample Condition	) ç	ne i	Standard Rush	-
FURM-000			No DI No	70	Correction Factor of	10 5/23/24	5/2-5/24 Nc No Corrected Temp. °C

Refinquished By:

Received By

3

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

> Observed Temp. "C Time:

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY:

Turnaround Time:

Cost centre. 224251/001 Standard

□ Yes □ Yes □ No Cool Intact

Bacteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C

nAPP2411631990

BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

## 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2476	X (575) 393-24	476										
Company Name: Ensolum, LLC	Ensolum, LLC					8	BILL TO		1			ANALYSIS REQUEST	┙
Project Manager:	Tracy Hillard	prod				P.O. #:					7	- 1	$\perp$
Address: 601 N I	Address: 601 N Marienfeld Street, Suite 400	te 400				Company:	Company: YTO Energy	704					
City: Midland		State: TX	Zip:	Zip: 79701	701	Attn: Amu	WHIP] WI	> -					
Phone #: 575	Phone #: 575-937-3900	Fax #:				Address:	2	ene					
Project #: 03C1558346	1558346	Project Owner:	~ ×	-1	O	city: ( Gr/Sbad	Spad						
Project Name:	Project Name: PW 22 DTD	Paul D				State: Nh	State: N/M Zip: 88220	120					_
Project Location: 32, 2019	_	-103, Sloy 89	39			Phone #: 4	Phone #: 437-661-0571	175					_
Sampler Name: Tracy Hillard	racy Hillard	Ġ				Fax #:					_		_
FOR LAB USE ONLY			Ρ,		MATRIX	PRESERV	V. SAMPLING	LING					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMF	CONTAINERS	GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500		
10	F511	6.0	C	-	×	×	K3:22:5	1270	X	X	X		$\perp$
11	FSIA	_			-	_	-	1223	-	-	-		
12	FS13							9221					
3	FSIY							1230					
14	£515							1732					
15	5/6		-					1235		-			
14	+SIT							1237					
17	£518							239					
18	FSIG							142					
19	F320	-	-	_	1			1243	-				
PLEASE NOTE: Liability and analyses. All claims including service in no swed shall Care	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause whatscower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.	nt's exclusive remedy for ar ause whatsoever shall be o	ny claim deemed	arising	whether based in contract d unless made in writing and	or tort, shall be limite received by Cardina	d to the amount paid b within 30 days after o	y the client for the ompletion of the	applicabl	•			L
affiliates or successors arising	affiliate or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white the successors arising out of or related to the performance of services hereunder by Cardinal, regardless of white services hereunder by Cardinal are services hereunder	of services hereunder by C	ardinal,	regard	erial aamages, incuang wmout innation, busitess mempioons, loss of use, or loss of profits incurred by client, its subsidiging services hereunder by Cardinal, regardless of/whether such claim is based upon any of the above stated reasons or otherwise.	s based upon any of	profits incurred by clie the above stated reas	nt, its subsidiaries ons or otherwise.					
	000	22324	Zec	- E	Neceived by:		1	All Results are	are en	nailed.	Please pr	All Results are emailed. Please provide Email address:	

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINA
Laboratorie
101 East Marland, Hobbs, NM 88

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

		10.0/ 000 2	****								
Company Name	Company Name: Ensolum, LLC				BILL TO	0			ANAL YSIS	REQUEST	
Project Manager:	loacy	Hillard		P.O. #:			$\dashv$				
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	uite 400		Com	Company: XTO Greater	Veren			_		
		State: TX	Zip: 79701	Attn	Attn: Amu Cu	Ruth	_				
Phone #: 57	15-937-3906	Fax #:		Addr	-	Sound	_		_		
Project #: 050	1558346	Project Owner:	:XTO	City:	(,ar(5)a,						
Project Name:	and se my	Pad D		State:	NM Zip:	0.6688					
Project Location	Project Location: 30, 30997,	-103,86489	_0	Phor		1750-1					
Sampler Name: Tracy Hillard	Tracy Hillard			Fax #:	.**						
FOR LAB USE ONLY				MATRIX	SERV.	SAMPLING	_				
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMF CONTAINERS ROUNDWATER VASTEWATER	OIL IL LUDGE THER:	THER:		TPH 8015 BTEX 8021	Chloride 4500			
20	1667	0.5	- 1	3	× 100	Sh21 12	7	1		+	1
10 P	かりること		=		<u>+</u>	1250	_	-			
23	FS24		1			1755	-				
EASE NOTE: LISTER OF	DE BASE NOTE: I SANS DE SANS D										
ervice. In no event shall Ca filliates or successors arisin	sursyes. An Claim's riculang those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Condinals be liable for includeng water shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Condinals be liable for includeng water shall be deemed waived unless made in writing and received by Cardinal, and the survivars made unless the conditions to the condition of the same shall of manner or otherwise.	After cause whatsoever shall be de consequental damages, including vance of services hereunder by Ca	emed waived unless made without limitation, business i dinal, regardless of whether	I waived unless made in writing and received by Cardinal within 30.  I limitation, business interruptions, loss of use, or loss of profits incu- regardless of whether such claim is based upon any of the above-	by Cardinal within 30 days a or loss of profits incurred a on any of the above stated	after completion of the a by client, its subsidiaries, reasons or otherwise.	pplicable				
	thela	11me:330 C	Received by:	No Brown		All Results are BBelill@ensol	re emaile	Yes ☐ No led. Please pro om, TMorrissey@	Verbal Result: ☐ Yes ☐ No Add'I Phone #:  All Results are emailed. Please provide Email address:  BBeliil@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com	rd@ensolum.com	
Nemiquisited by:			Received By:			PAPP 3411631990	上16	MARKS: APP 3411631990	SILODI		
Sampler - UPS - Bus - Other:		Observed Temp. °C	/ G Sample	Sample Condition Cool Intact Tes Tres	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113	Time:	Stan		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐Yes ☐ Yes	ç
FUKM-006	K 3.2 10/07/21		1	OL NO		Correction Fac	tor -U-b-t	4	STESTER NO NO	No Corrected Temp. °C	o, °C

Page 28 of 28

 From:
 Tacoma Morrissey

 To:
 Wells, Shelly, EMNRD

 Cc:
 Brown, Colton S

**Subject:** [EXTERNAL] RE: NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D

**Date:** Monday, December 23, 2024 10:40:52 AM

Attachments: <u>image001.png</u>

image002.png image003.png

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

Hi Shelly,

Attached are photos 2 and 3. Unfortunately when getting the pdf to a proper size to submit sometimes the photos become grainy. The temporary lined containment was within the release extent already, so sampling was completed as part of the release extent. I'm confirming with the staff onsite if they have any additional photos from the section of the excavation taken to 4 feet bgs. One of the staff onsite confirmed they did not take photos, but I'm hoping the second staff onsite did. I'll let you know- we have reiterated to our staff that these photos are critical.

The lined containment was removed before delineation activities which is why it was not included in the figures. However, the release description states "...a pump failure resulted in the release of 18 barrels (bbls) of produced water into a temporary lined containment area, onto the pad surface, and into the adjacent pasture area." Though the containment was removed, some equipment, visible in the Work Plan photolog, impeded delineation to be completed beneath the area that the containment had been, so we proposed confirmation sampling to confirm if impacts existed beneath that area. The Work Plan proposed sampling prior to excavation, but based on surface soil sample screenings, the entire release extent was excavated to at least 1-foot bgs prior to confirmation soil sampling and submittal to the laboratory.

Hope this helps, please let me know of any other questions.

Thanks,



Tacoma Morrissey
Associate Principal
337-257-8307
Ensolum, LLC
in f 

X

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, December 23, 2024 10:36 AM

To: Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D

### [ \*\*EXTERNAL EMAIL\*\*]

Hi Tacoma,

I am reviewing the remediation closure report for the following release NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D and have two questions for you. Do you possibly have any better excavation photos? Photos 2 and 3 that are in the closure report are grainy, specifically. Your backfill photograph 4 is perfect. If you have a clearer photo of the entire excavation as well as the deeper parts of the excavation that would be appreciated. Also, in the 9/17/24 approved remediation plan, it was stated the area below the temporary lined containment that has been removed would be sampled. No mention of sampling around that area was made in the remediation summary. Was this done? As its location was never clearly pointed out in the Figure, I can not tell.

I appreciate hearing back from you when you are able to get back to me.

I hope you have a Merry Christmas,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 412707

### **QUESTIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411631990
Incident Name	NAPP2411631990 POKER LAKE UNIT 22 DTD PAD D @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 22 DTD PAD D
Date Release Discovered	04/09/2024
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	Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	r 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: Equipment Failure   Pump   Produced Water   Released: 18 BBL   Recovered: 0 BBL   Lost: 18 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.	

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

## 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 412707

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 412707 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses 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 to does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/10/2024

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

## 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 412707

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd 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)	Between ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions th	at apply or are indicated. This information must be provided to t	he 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 de	monstrating the lateral and vertical extents of soil contamination	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	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in mill	igrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	2360
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	34.1
GRO+DRO	(EPA SW-846 Method 8015M)	34.1
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	IMAC unless the site characterization report includes completed elines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	Il the remediation commence	04/26/2024
On what date will (or did) the final sampling or liner inspection occur		11/18/2024
On what date will (or was) the remediation complete(d)		11/18/2024
What is the estimated surface area (in square feet) that will be reclaimed		22275
What is the estimated volume (in cubic yards) that will be reclaimed		845
What is the estimated surfa	ace area (in square feet) that will be remediated	22275
What is the estimated volume	me (in cubic yards) that will be remediated	845
These estimated dates and measu	rements are recognized to be the best guess or calculation 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 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.

Released to Imaging: 12/23/2024 2:07:52 PM

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

## 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 412707

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### 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	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 12/17/2024

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.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

## 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 412707

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### 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

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 6

Action 412707

### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	394400
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/24/2024
What was the (estimated) number of samples that were to be gathered	130
What was the sampling surface area in square feet	23000

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	25728
What was the total volume (cubic yards) remediated	1900
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	25728
What was the total volume (in cubic yards) reclaimed	1900
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site, in accordance with the Work Plan, to address the April 9, 2024 release of produced water. The approved September 10, 2024, Work Plan is included in Appendix C. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the strictest Table I Closure Criteria. Based on laboratory analytical results, no further remediation is required at this time. The excavation has been backfilled with material purchased locally and recontoured to match pre-existing Site conditions.

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

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 12/17/2024

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 7

Action 412707

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 412707

### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	412707
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved.	12/23/2024