

December 23, 2024

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

Re: Closure Request PLU 22 DTD

Incident Number nAPP2418049577

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 PLU 22 DTD (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan* (*Work Plan*), was to address impacts to soil resulting from a release of produced water and crude oil at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2418049577.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 22, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.206°, -103.86686°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 26, 2024, an illegal dump was discovered along an active lease road. An estimated 26 barrels (bbls) of produced water and 26 bbls of crude oil were released onto the surface of the lease road and into an adjacent pasture area. No fluids were recovered. Upon discovery of the illegal dump, the Eddy County sheriff's department was notified and case number L240001598 was filed. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number NAPP2418049577.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan*. The *Work Plan* was submitted on September 24, 2024 and approved by the NMOCD on September 26, 2024. The *Work Plan* details delineation activities and results of delineation soil sample analytical results and proposed confirmation soil sampling be conducted within the release extent to further confirm the absence of impacted soil.

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

XTO Energy, Inc Closure Request PLU 22 DTD

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As documented in the approved *Work Plan*, 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

TPH: 100 mg/kgChloride: 600 mg/kg

CONFIRMATION SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite on October 14, 2024 and November 14, 2024 to collect confirmation soil samples within the release extent. Ensolum personnel collected 5-point composite soil samples every 400 square feet, in accordance with the approved sampling frequency variance, from the surface of the release extent. The composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Soil from the composite samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Confirmation soil samples CS01 through CS26 were collected from the release extent at a depth of 0.5 feet bgs. The confirmation soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 3. Photographic documentation of the Site visit 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 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.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation soil samples CS12, CS13, CS15, CS16, CS18 and CS25 indicated TPH and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for all other confirmation soi samples indicated all COC concentrations 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 C.

EXCAVATION SOIL SAMPLING ACTIVITIES

On November 25 2024, Ensolum personnel returned to the Site to oversee the excavation of impacted soil located in the vicinity of confirmation soil sample locations CS12, CS13, CS15, CS16, CS18, and CS25. Excavation activities were performed by use of heavy equipment. To direct excavation activities, soil was field screened for VOCs and chloride. Once field screening indicated impacted soil was adequately removed, 5-point composite, confirmation soil samples CS12A, CS13A, CS15A, CS16A, CS18A, and CS25A, were collected at a depth of 1 foot bgs. In addition, composite sidewall soil samples SW01 through SW04 were collected at depths ranging from the ground surface to 1 foot bgs. The confirmation soil samples were handled and submitted to Cardinal for analysis of the same COCs as



XTO Energy, Inc Closure Request PLU 22 DTD

described above. The confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 3. Photographic documentation of the final excavation extent is provided in Appendix A

The final excavation extents measured approximately 1,409 square feet in total. A total of approximately 52 cubic yards of impacted soil was removed during the excavation activies. The impacted soil was transported and disposed of at the Owl Landfill Service, LLC in Jal, New Mexico. The final excavation was backfilled on the same day, November 26, 2024.

CLOSURE REQUEST

Confirmation soil sampling activities were conducted at the Site in accordance with the approved *Work Plan* to address the September 2024 release of produced water and crude oil. Laboratory analytical results indicated the impacted soil as a result of the release was present at the Site. Impacted soil was excavated and all final confirmation soil samples indicated all COCs were in compliance with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions.

Excavation of soil has mitigated impacts exceeding the Closure Criteria at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2418049577.

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

Sincerely, **Ensolum, LLC**

Sherele Brooks Staff Scientist

Mard L Burs

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

ashley L. ager

Principal

BLM

Appendices:

CC:

Figure 1 Site Receptor Map

Colton Brown, XTO

Kaylan Dirkx, XTO

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

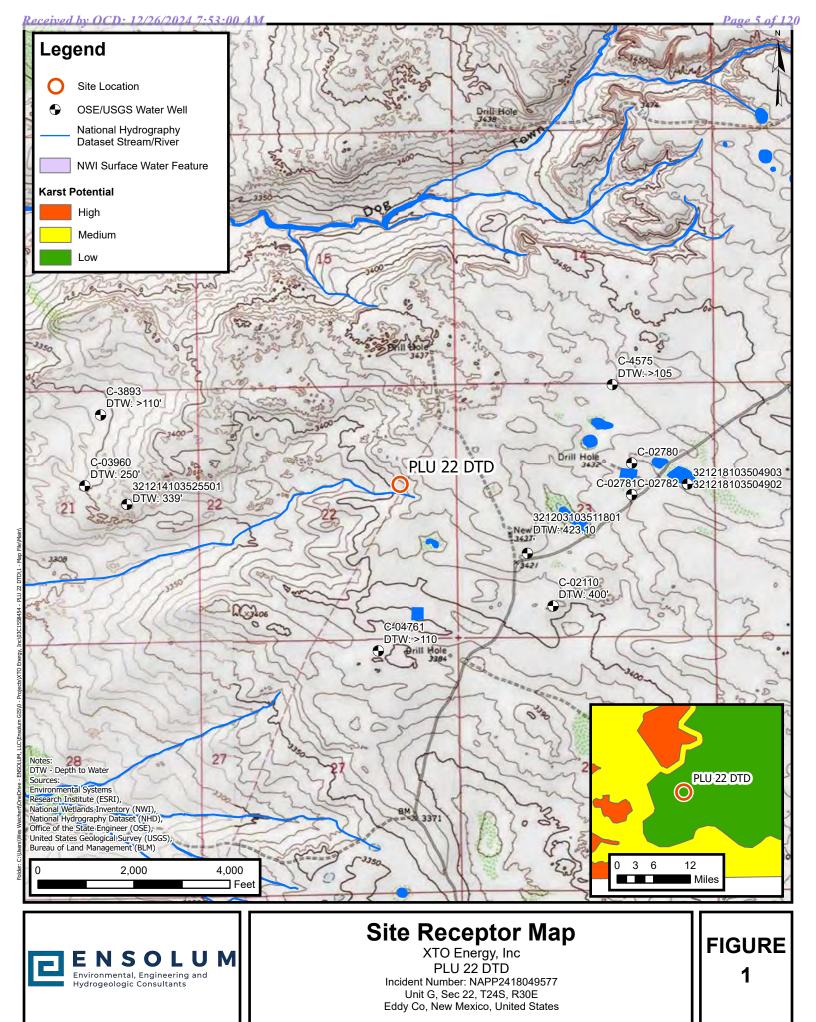
Appendix A Photographic Log

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

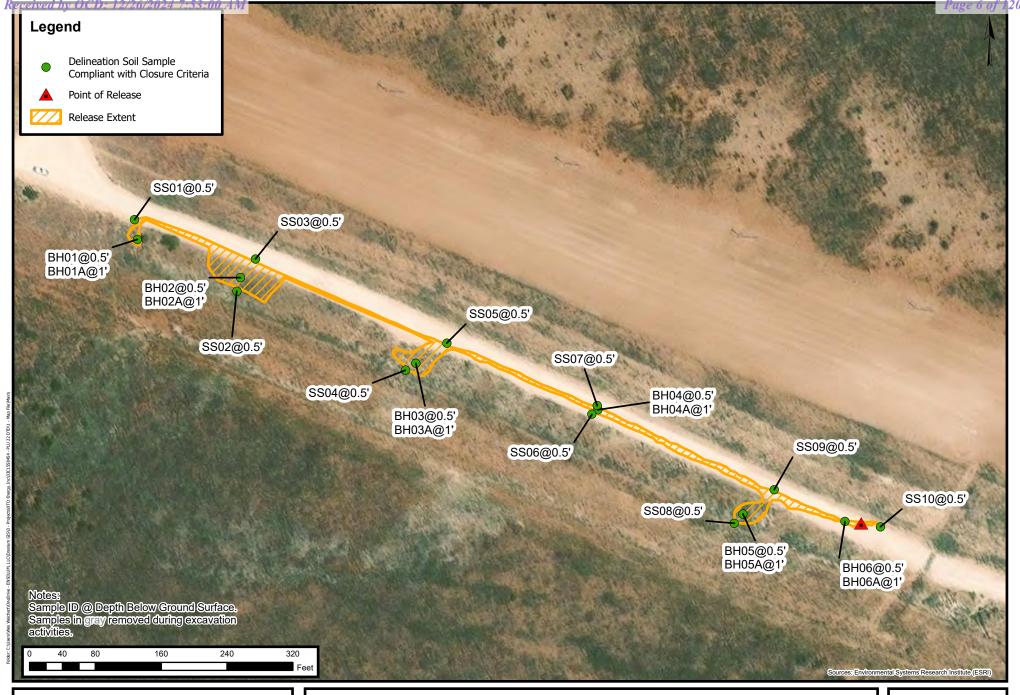
Appendix C September 23, 2024 Remediation Work Plan



FIGURES



Released to Imaging: 2/10/2025 4:01:18 PM





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Delineation Soil Sample Locations XTO Energy, Inc PLU 22 DTD

XTO Energy, Inc PLU 22 DTD Incident Number: NAPP2418049577 Unit G, Sec 22, T24S, R30E Eddy Co, New Mexico, United States FIGURE 2

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Legend

- Excavation Floor Sample in Compliance with Closure
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Extent
 - Release Extent

Sample ID @ Depth Below Ground Surface. Samples in bold indicate sample exceeded applicable

closure criteria.

Grey text indicate soil sample was removed during excavation activities.

Excavation Soil Sample Locations

XTO Energy, Inc PLU 22 DTD Incident Number: NAPP2418049577 Unit G, Section 22, T 24S, R 30E Eddy County, New Mexico

FIGURE

Project Number: 03C1558454





TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD 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	NE	100	600
				Delir	neation Soil Sai	nples				
SS01	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS04	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS06	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS07	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SS08	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS10	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH01	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH01A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH02A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH04A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
BH05	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05A	07/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH06	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH06A	07/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
				Confi	irmation Soil Sa	ımples				
CS01	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS02	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS03	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS04	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS05	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
CS06	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD 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	NE	100	600
CS07	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS08	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS09	10/14/2024	0.5	<0.050	<0.300	<10.0	14.4	<10.0	<10.0	<10.0	32
CS10	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS11	10/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS12	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
CS12A	11/25/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS13	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
CS13A	11/25/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS14	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS15	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	< 10.0	<10.0	<10.0	1,280
CS15A	11/25/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS16	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,180
CS16A	11/25/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS17	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
CS18	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,310
CS18A	11/25/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS19	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS20	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS21	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
CS22	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
CS23	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS24	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS25	11/14/2024	0.5	<0.050	<0.300	<10.0	188	50.1	188	238	432
CS25A	11/25/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
CS26	11/14/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SW01	11/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 22 DTD 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 CI	NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	NE	100	600
SW02	11/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW03	11/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW04	11/25/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 3 of 3



APPENDIX A

Photographic Log



Photographic Log

XTO Energy, Inc PLU 22 DTD nAPP2418049577





Photograph: 1 Date: 10/14/2024

Description: Soil sampling activities

View: Northeast

Photograph: 2 Date: 11/25/2024

Description: Excavation activities

View: Southeast







Photograph: 4

Date: 11/26/2024

Description: Backfill activities

View: Southeast

Photograph: 3 Date: 11/26/2024

Description: Excavation activities

View: Southeast



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation



October 17, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DTD

Enclosed are the results of analyses for samples received by the laboratory on 10/15/24 13:45.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 01 0.5' (H246255-01)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	32.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	109 5	% 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 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 BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 02 0.5' (H246255-02)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	32.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 03 0.5' (H246255-03)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 5	% 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	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 04 0.5' (H246255-04)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	48.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 05 0.5' (H246255-05)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	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	96.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.206000,-103.866860

ma/ka

Sample ID: CS 06 0.5' (H246255-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	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	48.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.206000,-103.866860

ma/ka

Sample ID: CS 07 0.5' (H246255-07)

RTFY 8021R

BIEX 8021B	mg	^и кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	< 0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	80.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 08 0.5' (H246255-08)

	9/	/kg	Andryzo	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	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	32.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Celey D. Keene

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 09 0.5' (H246255-09)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	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	32.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	14.4	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 10 0.5' (H246255-10)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	< 0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	<16.0	16.0	10/16/2024	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

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

Received: 10/15/2024 Sampling Date: 10/14/2024

Reported: 10/17/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558454 Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: CS 11 0.5' (H246255-11)

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	10/16/2024	ND	2.17	109	2.00	6.42	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	6.01	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	5.73	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.27	105	6.00	6.06	
Total BTEX	<0.300	0.300	10/16/2024	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	48.0	16.0	10/16/2024	ND	432	108	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	10/16/2024	ND	193	96.6	200	0.356	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	191	95.7	200	7.97	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Relinquished By:

Received By:

REMARKS: COS+ COAter: 2229831001/225624100

TACIDENT =: NAPPZY18049577

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

06.

0

Cool Intact
Pes Pres
No No

(Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Observed Temp. °C
Corrected Temp. °C

Cool Intact

Yes Yes

Nc No

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	: Ensolum, LLC			BILLTO		ANALYSIS REQUEST
Project Manager: Ben	"Ben Bel:1)			P.O.#		
Address: 3122 N	Address: 3122 National Parks Hwy			Company: XTO Energy	×	
City: Carlsbad		State: NM	Zip: 88220	Attn: Colton Brown		
Phone #: 489	-854-0852) Fax #:		Address: 3/04 E Green St	0.5+	
Project #: 036 1558 454	1558454	Project Owner:	er:	City: Caf 156ad		
Project Name:	Project Name: PLU 22 DTD			State: N/M Zip: 88230	9	
Project Location	Project Location: 32,206, -103,8668	8668		Phone #: 5 74-488-3360	865	
Sampler Name:	Mario Sarkis	212		Fax#:		
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		
		Depth	ERS			
H246255	Sample I.D.	(feet)	(G)RAB OR # CONTAINE GROUNDW/ WASTEWAT SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER: DATE	BTE) TPH Chlor	
-	6501	0,5	-	-	0	
N	CS02	015	7	_	7776	
W	CS03	015	V - 7	1034	\ \ \ \ \	
4	CS04	0.5	()	1691	1 1 1	
5	505	0,5		1 1044	1 1 1 1	
6	6306	0.5	()	1 1048	1 1 1 84	
7	CS07	0.5	C - \	1055	211	
200	8057	0.5	1	1058	1118	
2	6509	0,5	1	7 110	1 1 1	
10	6510	0.5	C 1 1	1 V V 1109	7 / / /	
*LEASE NOTE: Liability and inalyses. All claims including and/ce. In no event shall Card filliates or successors arising.	Damages. Cardinal's liability and clie those for negligence and any other those for negligence and any other tinal be liable for incidental or conse- tors of or related to the neglorous.	int's exclusive remedy for a cause whatsoever shall be quental damages, including	ny claim arising whether based in contract or deemed walved unless made in writing and y without limitation, business interruptions, to	PLEASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remety for any daim 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 whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable sorvice. In no event shall Cardinal be liable for incidental or consequential damages, including without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the cardinal state of the cardinal	ent for the on of the applicable badianies,	
Relinquished By:	√By:	Date: M3	Received By:	Verba All Res	Sons or Otherwise. Yes No Add'I Phone #: All Results are emailed. Please provide Email address:	Add'l Phone #:
,				060	OBE THE ENSOINMEDIN / KH	KTHOMPSONGENSOIMM, COM/MSOSKISGENSOIMM, COM
			,			

Relinquished By:

Received By:

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

Observed lemp.

0

Cool Mitact
A Yes A Yes Sample Condition

(Initials) CHECKED BY:

Turnaround Time:

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208

Page 15 of 15

oratories

101 East Marland, Hobbs, NM 88240

Company Name: Ensolum, LLC		OT THE	ANALYSIS REQUEST
Project Manager:		P.O. #:	
Address: 3122 National Parks Hwy		Company: XTO ENORA V	
City: Carlsbad State: NM	NM Zip: 88220	Attn: Colton Brown	
Phone #: 989-854-0852 Fax #:		Address: 3/04 E (Spell)+	
	Project Owner:	City: Cos 15 had	
Project Name: PLU 22 DTD		State: NM Zip: 88220	
Project Location: 32, 206, -103, 8668	840	Phone #: < 75-490-236	
Sampler Name: Mario Sor Kis		Fax #	
	MATRIX	L	
	2		100
Lab I.D. Sample I.D. Depth	G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE DTHER: CCID/BASE: CE / COOL DTHER:	BTEX TPH Chlorid
11 (51) 0.5	-	1 10/14/34	/ / /
)

bbelineensour. con/ K+DOMPSONE ensoun. com/ MSOS WTSE ensoun. com

REMARKS: COST CONTOC: 2229231061/2250241601

Incident #: NAPPZ41804957> Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C All Results are emailed. Please provide Email address:

O No

Add'l Phone #:



November 19, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 22 DTD (454)

Enclosed are the results of analyses for samples received by the laboratory on 11/15/24 13:50.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024
Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 12 0.5 (H246989-01)

BTEX 8021B

BIEX GOEIB	9/	119	Andryzo	u 5 y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	688	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

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Me Sough



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 13 0.5 (H246989-02)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	800	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 14 0.5 (H246989-03)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 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	416	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 15 0.5 (H246989-04)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	1280	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.3	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 16 0.5 (H246989-05)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	1180	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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Mile Sough



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 17 0.5 (H246989-06)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	528	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Mule Sough



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024
Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 18 0.5 (H246989-07)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	1310	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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11/14/2024

Soil

Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date:
Reported: 11/19/2024 Sampling Type:

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 19 0.5 (H246989-08)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	560	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 20 0.5 (H246989-09)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	384	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024
Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 21 0.5 (H246989-10)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	576	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	87.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

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11/14/2024

Alyssa Parras

Sampling Date:

Sample Received By:

Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024

03C1558454

Reported: 11/19/2024 Sampling Type: Soil
Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact

Project Location: 32.20, -103.86686

Sample ID: CS 22 0.5 (H246989-11)

Project Number:

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	496	16.0	11/18/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 23 0.5 (H246989-12)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	384	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 24 0.5 (H246989-13)

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	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	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	256	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.20, -103.86686

ma/ka

Sample ID: CS 25 0.5 (H246989-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 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	432	16.0	11/18/2024	ND	432	108	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	11/16/2024	ND	212	106	200	2.56	
DRO >C10-C28*	188	10.0	11/16/2024	ND	204	102	200	2.46	
EXT DRO >C28-C36	50.1	10.0	11/16/2024	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	8						

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Mile South



Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/15/2024 Sampling Date: 11/14/2024

Reported: 11/19/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (454) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.20, -103.86686

mg/kg

Sample ID: CS 26 0.5 (H246989-15)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.09	105	2.00	18.0	
Toluene*	<0.050	0.050	11/16/2024	ND	2.24	112	2.00	18.9	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.45	123	2.00	24.7	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.44	124	6.00	26.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	480	16.0	11/18/2024	ND	432	108	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	11/18/2024	ND	211	105	200	0.943	
DRO >C10-C28*	<10.0	10.0	11/18/2024	ND	199	99.3	200	0.824	
EXT DRO >C28-C36	<10.0	10.0	11/18/2024	ND					
Surrogate: 1-Chlorooctane	82.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Me Sough



Notes and Definitions

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

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Mile Sough

FORM-006 R 3.2 10/07/21

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project In an Balil	Company Name:	Ensolum, LLC	LC .						Ī		BIL	BILL TO					ANALYSIS REQUEST	SIS	VECT	PES!		
Company: XTO Energy State: TX Zip: Email: bbellil@ensolum.com Address: 3104 E. Green State: NM Zip: 8									P.O.	*												
Email: bbelili@ensolum.com	roject manager.	Dell Doing							Con	npan	Y: XTO	O Energy										
Email: bbelili@ensolum.com	ddress: 3122 Na	XT. TX	in'						Attn	1: Co	ton B	rown										
City: Carlsbad State: NM Zip: 8	ity: Midiand	omer in		Hill@e	nsolu	m.co	3		Add	ress	3104	E. Green S	t.									
State: NM Zip: 8 State: NM Zip: 8 Phone #: 575-988-2390	minet #: 03C155	8454	Project Own	er					City	: Car	Isbad	_									_	
Phone #: 575-988-2390 Email: Email: Email: Email: Email: Email: Email: Email:	roject Name: Pl	II 22 DTD (454)							Stat		X		88220									
MATRIX PRESERV. SAMPL	oject marion.	32 206 -403 86686							Pho	ne #	575	-988-2390										
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CS12	18 XIIIC	2012				_	_	_	_	1	_		1202	×	X	×				1		+
CS14	_	CS1Z	0.5	2 0	+	1	×	+	#		×		1204	×	X	×				T		
CS14	0	CSLS	0.0	2 (+	1	1	+	#		×	11/14/2024	942	×	X	X				1		
CS15	U	CS14	0.5	2 (-	1	×	+			×	11/14/2024	1206	×	X	×				t		-
CS10	2	COLO	0.5	2	+	1	×	+			×	11/14/2024	1208	×	×	×		T	T	t		+
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Date: Content Content	EASE NOTE: Listery and I claims, including lines to	Temages, Cardinal's liability and client's outlook in negligence and any other cause whosoes while for prodectal by consequental dama	us amody for any claim arrang whether or shall be deemed visived unless mil- ps, including without limitation, busins	ade or water	pland or	swed by a of use.	Cardinal or loss o	politic	deps and nouned b	A coup	Manager of B	ne applicable service fames										
Date: Received By: Time: Received By: Time: Sample Condition CHECKED BY: ss - Other: Corrected Temp. "C Cool Infact (Initials)	elinquished By	put of or related to the performance of is	Date:	Rece	ived	By:	1						Verbal Res	are em	ailed. Pl	Base pro	vide Em	ail add	ress:	is@en	solum.com	
Date: Received By: Cost Center, 2229831001 / 2250 Time: Condition CHECKED BY: Turnal vouled Time: Standard Cheere is - Other: Cool Infact (Initials) Rush Cool Infact	1	1	TIPES COL	C	5	Ž	-	6	۲				REMARKS	Incide	nt #: nA	PP24180	49577					
Observed Temp. *C Sample Condition CHECKED BY: Tunaround Time: Standard Cherry ther: Corrected Temp. *C U U Cool Infact (Initials) Rush Cool Infact Control Cherry	telinquished By	7.	Date:	Rece	ived	By:							Cost Cente	r: 2229	831001/	2250241	001					
100	Delivered By: (Cir Sampler - UPS - E	cle One) Bus - Other:	Observed Temp. *C Corrected Temp. *C			Sam	ple Co	ondition act	9		CHEC	KED BY:	Rush P	Cool	endard [Observed To	mp.*C	- ample co	TYNE THE STATE OF	î		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10 V



December 02, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DTD (DUMP)

Enclosed are the results of analyses for samples received by the laboratory on 11/26/24 13:01.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 11/26/2024
 Sampling Date:
 11/25/2024

 Reported:
 12/02/2024
 Sampling Type:
 Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.206, -103.86686

mg/kg

Sample ID: CS 12 A 1 (H247260-01)

BTEX 8021B

BIEX GOEED	9/	119	Andryzo	u 5 y 1 51 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2024	ND	2.20	110	2.00	2.73	
Toluene*	<0.050	0.050	11/27/2024	ND	2.09	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.09	104	2.00	2.25	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.20	103	6.00	2.44	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 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	11/27/2024	ND	432	108	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	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/25/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.206, -103.86686

mg/kg

Sample ID: CS 13 A 1 (H247260-02)

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	11/27/2024	ND	2.20	110	2.00	2.73	
Toluene*	<0.050	0.050	11/27/2024	ND	2.09	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.09	104	2.00	2.25	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.20	103	6.00	2.44	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 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	32.0	16.0	11/27/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/25/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.206, -103.86686

mg/kg

Sample ID: CS 15 A 1 (H247260-03)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2024	ND	2.20	110	2.00	2.73	
Toluene*	<0.050	0.050	11/27/2024	ND	2.09	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.09	104	2.00	2.25	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.20	103	6.00	2.44	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 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	32.0	16.0	11/27/2024	ND	432	108	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	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/25/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.206, -103.86686

mg/kg

Sample ID: CS 16 A 1 (H247260-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2024	ND	2.20	110	2.00	2.73	
Toluene*	<0.050	0.050	11/27/2024	ND	2.09	105	2.00	2.73	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.09	104	2.00	2.25	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.20	103	6.00	2.44	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	16.0	16.0	11/27/2024	ND	432	108	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	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/25/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558454 Shalyn Rodriguez

Project Location: 32.206, -103.86686

Sample ID: SW 01 0-1 (H247260-05)

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	11/27/2024	ND	2.19	110	2.00	0.00302	
Toluene*	<0.050	0.050	11/27/2024	ND	2.24	112	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.18	109	2.00	2.20	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.83	114	6.00	1.38	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	112	16.0	11/27/2024	ND	432	108	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	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/25/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.206, -103.86686

ma/ka

Sample ID: SW 02 0-1 (H247260-06)

RTFY 8021R

Result <0.050 <0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 11/27/2024	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050			ND	2.10				
	0.050			2.19	110	2.00	0.00302	
< 0.050		11/27/2024	ND	2.24	112	2.00	1.47	
	0.050	11/27/2024	ND	2.18	109	2.00	2.20	
<0.150	0.150	11/27/2024	ND	6.83	114	6.00	1.38	
<0.300	0.300	11/27/2024	ND					
103 9	% 71.5-13	4						
mg/	kg	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	11/27/2024	ND	432	108	400	3.77	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/27/2024	ND	205	103	200	6.32	
<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
<10.0	10.0	11/27/2024	ND					
103 9	% 48.2-13	4						
89.5	% 49.1-14	8						
	<0.150 <0.300 103 9 mg/ Result 144 mg/ Result <10.0 <10.0 <10.0	<0.150 0.150 <0.300 0.300 103 % 71.5-13 mg/kg Result Reporting Limit 144 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.150	<0.150 11/27/2024 ND 103 % 71.5-134 The sult of the sult	<0.150	<0.150	<0.150	<0.150

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Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/26/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.206, -103.86686

mg/kg

Sample ID: CS 18 A 1 (H247260-07)

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	11/27/2024	ND	2.19	110	2.00	0.00302	
Toluene*	<0.050	0.050	11/27/2024	ND	2.24	112	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.18	109	2.00	2.20	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.83	114	6.00	1.38	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	64.0	16.0	11/27/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/26/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.206, -103.86686

ma/ka

Sample ID: CS 25 A 1 (H247260-08)

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	11/27/2024	ND	2.19	110	2.00	0.00302	
Toluene*	<0.050	0.050	11/27/2024	ND	2.24	112	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.18	109	2.00	2.20	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.83	114	6.00	1.38	
Total BTEX	<0.300	0.300	11/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	96.0	16.0	11/27/2024	ND	432	108	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	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/26/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.206, -103.86686

ma/ka

Sample ID: SW 03 0-1 (H247260-09)

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	11/27/2024	ND	2.19	110	2.00	0.00302	
Toluene*	<0.050	0.050	11/27/2024	ND	2.24	112	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/27/2024	ND	2.18	109	2.00	2.20	
Total Xylenes*	<0.150	0.150	11/27/2024	ND	6.83	114	6.00	1.38	
Total BTEX	<0.300	0.300	11/27/2024	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	144	16.0	11/27/2024	ND	432	108	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	11/27/2024	ND	205	103	200	6.32	
DRO >C10-C28*	<10.0	10.0	11/27/2024	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/27/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/26/2024 Sampling Date: 11/26/2024

Reported: 12/02/2024 Sampling Type: Soil

Project Name: PLU 22 DTD (DUMP) Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.206, -103.86686

ma/ka

Sample ID: SW 04 0-1 (H247260-10)

RTFY 8021R

True Value QC 2.00 2.00 2.00 6.00	RPD 0.00302 1.47 2.20 1.38	Qualifier
2.00 2.00	1.47 2.20	
2.00	2.20	
6.00	1.38	
True Value QC	RPD	Qualifier
400	3.77	
True Value QC	RPD	Qualifier
200	6.32	
200	14.6	
	200	200 6.32

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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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	(575) 393-2326	FAX (575) 393-2476	6					RECHEST	
Company Name: Ensolum, LLC				OL TAKE	9		ANALISIS NE	1,40101	
Project Manager:	Ben Belill			P.O. #:					
Address: 3122 Na	Address: 3122 National Parks Hwy			Company: XTO b	the gy				
City: Carlsbad		State: NM	Zip: 88220		Jour				
Phone #: 989-	Phone #: 989-854-0852	रे Fax #:		Address: 3104 E	E. Geen St.		_	_	
Project #: 03C	1558454	Project Owner:		city: Cas 15 band					
Project Name:	_	(Dump)		State: // Zip: 88220	06888				
Project Location:	32.206, -	103.86686		Phone #: 575-988-2590	88-2590				
Sampler Name:	Mario Sar	achi's		1		5			
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	ide			
Lab I.D.	Sample I.D.	Depth (feet))RAB OR (C)OMF CONTAINERS ROUNDWATER ASTEWATER DIL	THER: CID/BASE: CE / COOL OTHER:	BTEX	TPH			
HOH INDO	16121	1	# G	11	1111 hrs/25/	1			
٥-	C)18A		7 1 7	, <	1116	<			
N	CS15A	1	01		1310	, ,			1
۲ ا	CS16A	-	7		A SICI	,			
7	SWOI	1-0	6 1 2	,	1	\ \ \			
(0)	ROMS	0-1	C 1 V						
7	C518A	-	7	V 11/36/24	10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Ø	CSASA	1	011		+	1			
0	5003	0-1	011		10201 10101	\			
ð.	SWOW	1-0	C I I I I I I I I I	existing whether based in contract or tort, shall be limited to the arm	amount paid by the client for the				
PLEASE NOTE: Liability a analyses. All claims include analyses in no event shall (nd Damages. Cardinal's liability ling those for negligence and as Cardinal be liable for incidental	/ and client's exclusive remedy for any cash ny other cause whatsoever shall be deemed or consequental damages, including without	PLEASE NOTE: Liability and Damagas. Cardiral's liability and client's accusave remote you any current owners. PLEASE NOTE: Liability and Damagas. Cardiral's liability and client's accusave remote you are your owners and the property of the appropriate analyses. All claims including mose for negligence and any other cause whateboower shall be demended without unless made in withing and received by client, it is subsidiaries. Sender In one want shall Carding those for negligence and any other cause whateboower shall be demended without limitation, business interruptions, loss of use, or loss of pools incurred by client, it is subsidiaries. Sender In one want shall Carding those for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of pools incurred by client, it is subsidiaries.	g and received by Cardinal within 30 on yns, loss of use, or loss of profits incu-	red by client, its subsidiaries, tated reasons or otherwise.	licable			
affiliates or successors arising Relinquished By:	sing out of or related to the period	Date: 100 A Time; 301	Cardinal, regardless of whether such o	ceived By: Stod light with about upon any of the above.		Yes □ No emailed. Please pro e/h∞) κΜ. CeM / K	Yes No Add'l Phone #:	clumical month	Misser
Relinquished By:	Зу:	Date:	Received By:	9	REMARKS:	EUCIDEN+ #	7	277	
		Time:		CHECKED BY:			1001	y) S	on
Delivered By: (Circle One)	(Circle One)	Corrected Temp. CO A	Cool Intact	Λ	Thermometer ID #113	Rus	48-VL Ood Infact	Yes No Corrected Temp. °C	mp. °C
	- Bus - Culei.	College to a serie			ECOTT & CLION I ME	100		ı	

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

Page 13 of 13

Wor



APPENDIX C

September 23, 2024 Remediation Work Plan



APPENDIX F



September 23, 2024

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

Re: Remediation Work Plan

PLU 22 DTD

Incident Number NAPP2418049577

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 site assessment and delineation activities completed to date and propose to complete confirmation soil sampling to address an unauthorized release at the PLU 22 DTD (Site). The purpose of the site assessment and delineation activities was to assess for the presence or absence of impacted soil resulting from a release of produced water and crude oil at the Site. The following *Work Plan* proposes confirmation soil sampling to be completed within the release extent area for Incident Number NAPP2418049577.

SITE DESCRIPTION AND RELEASE SUMMARY

The release was discovered in Unit G, Section 22, Township 24 South, Range 30 East in Eddy County, New Mexico (32.206°, -103.86686°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 26, 2024, an illegal dump was discovered along an active lease road. An estimated 26 barrels (bbls) of produced water and 26 bbls of crude oil were released onto the surface of the lease road and into an adjacent pasture area. No fluids were recovered. Upon discovery of the illegal dump, the Eddy County sheriff's department was notified and case number L240001598 was filed. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on June 28, 2024. The release was assigned Incident Number NAPP2418049577.

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 nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologoical Society (USGS) well 321203103511801, located 0.75 miles to the southeast of the Site. The groundwater well has a reported depth to groundwater of 423 feet bgs and a total depth of 367

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

XTO Energy Inc. Remediation Work Plan PLU 22 DTD



feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 179 feet south 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On July 9, 2024, Ensolum personnel conducted site assessment activities at the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was conducted and a Photographic Log is included in Appendix B.

On July 24, 2024, Ensolum personnel returned to the site to complete delineation and soil sampling activities to assess the presence or absence of impacted soil. Ten delineation soil samples (SS01 through SS10) were collected around the release extent from a depth of 0.5 feet bgs to define the lateral extent of the release. Six boreholes (BH01 through BH06) were advanced via hand auger to a maximum depth of 1-foot bgs within the release extent to determine the vertical extent of the release. Two discrete delineation soil samples were collected from each borehole at depths of 0.5 feet bgs and 1-foot bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for each pothole were documented on a lithologic/soil sampling log and are included as Appendix C. The delineation soil sample locations are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): 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 Standards Method SM4500.

Laboratory analytical results for all delineation soil samples collected indicated that all COC concentrations were compliant with Closure Criteria and reclamation requirement. Based on laboratory analytical results, the lateral and vertical extent of the release is defined. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included in Appendix D.

XTO Energy Inc. Remediation Work Plan PLU 22 DTD



PROPOSED REMEDIATION WORK PLAN

Laboratory analytical results for all delineation soil sampling completed indicate the absence of impacted soil across an approximate 10,200 square-foot release area. XTO proposes to complete the following remediation activities:

- Collect 5-point composite confirmation soil samples on the surface of the access road and
 pasture areas, within the release extent. The 5-point composite samples will be collected by
 placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing
 the samples by thoroughly mixing.
- Due to the size of the release extent, XTO requests a variance for frequency of confirmation samples. XTO proposes the five-point composite samples to be collected at a sampling frequency of 400 square feet. The proposed sampling frequency would reduce the total amount of samples from approximately 51 samples (200 square feet) to approximately 26 samples.
- If laboratory analytical results from surface confirmation soil sampling indicates the presence of
 impacted soil, excavation of impacted soil will ensue, and 5-point composite soil samples will be
 collected from the floor and sidewall of the final excavated extent. All confirmation soil samples
 collected will be handled and analyzed for the same COCs as described above.
- The release extent will be monitored in the pasture area for impacts to vegetation. If any
 vegetation impacts are noted, XTO will resurface the stressed pasture surface area to match
 pre-existing Site conditions and re-seeded with the recommended BLM seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* by NMOCD. XTO will complete the 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.

Sincerely, **Ensolum**, **LLC**

Tought Hard

Tracy Hillard Project Manager Tacoma Morrissey Associate Principal

Mouissey

CC:

Colton Brown, XTO Kaylan Dirkx, XTO BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

XTO Energy Inc. Remediation Work Plan PLU 22 DTD



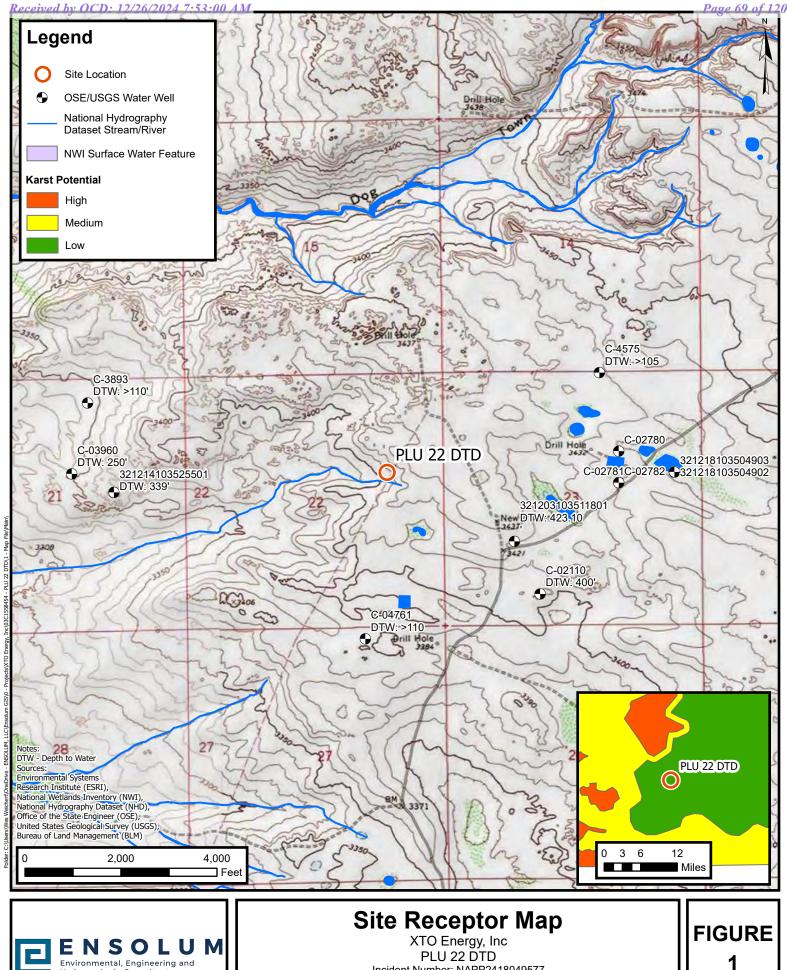
Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

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



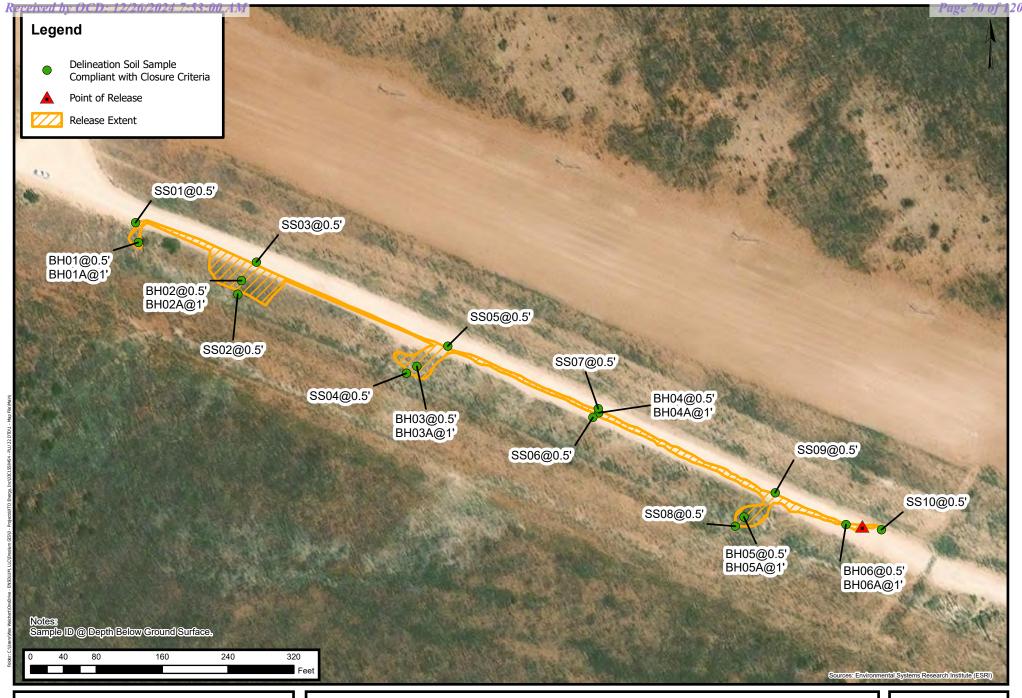
FIGURES





Incident Number: NAPP2418049577 Unit G, Sec 22, T24S, R30E Eddy Co, New Mexico, United States

Released to Imaging: 2/10/2025 4:01:18 PM





Released to Imaging: 2/10/2025 4:01:18 PM

Delineation Soil Sample LocationsXTO Energy, Inc PLU 22 DTD

NIO Energy, Inc PLU 22 DTD Incident Number: NAPP2418049577 Unit G, Sec 22, T24S, R30E Eddy Co, New Mexico, United States FIGURE 2



TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** PLU 22 DTD 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	NE	100	600
				Deli	neation Soil Sa	mples				
SS01	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS04	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS06	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS07	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SS08	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS10	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH01	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH01A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH02A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03A	07/24/2024	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH04A	07/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
BH05	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05A	07/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH06	07/24/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH06A	07/24/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources



Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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 data	1									
Tab-separate	ed data									
Graph of dat	<u>a</u>									
Reselect peri	<u>iod</u>									
Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measure
1959-03-26		D	62610		2998.18	NGVD29	1	7	Z	
1959-03-26		D	62611		2999.90	NAVD88	1	7	Z	
1959-03-26		D	72019	423.10			1	2	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

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

FOIA Policies and Notices Accessibility Privacy

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

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

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2024-07-05 13:50:43 EDT

0.35 0.33 nadww02





APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc PLU 22 DTD nAPP2418049577





Photograph: 1 Date: 7/9/2024

Description: Soil staining in release footprint

View: East

Photograph: 2 Date: 7/9/2024 Description: Soil staining in release footprint

View: West



Photograph: 3 Date: 7/24/2024

Description: Delineation activities

View: West



Photograph: 4 Date: 7/24/2024

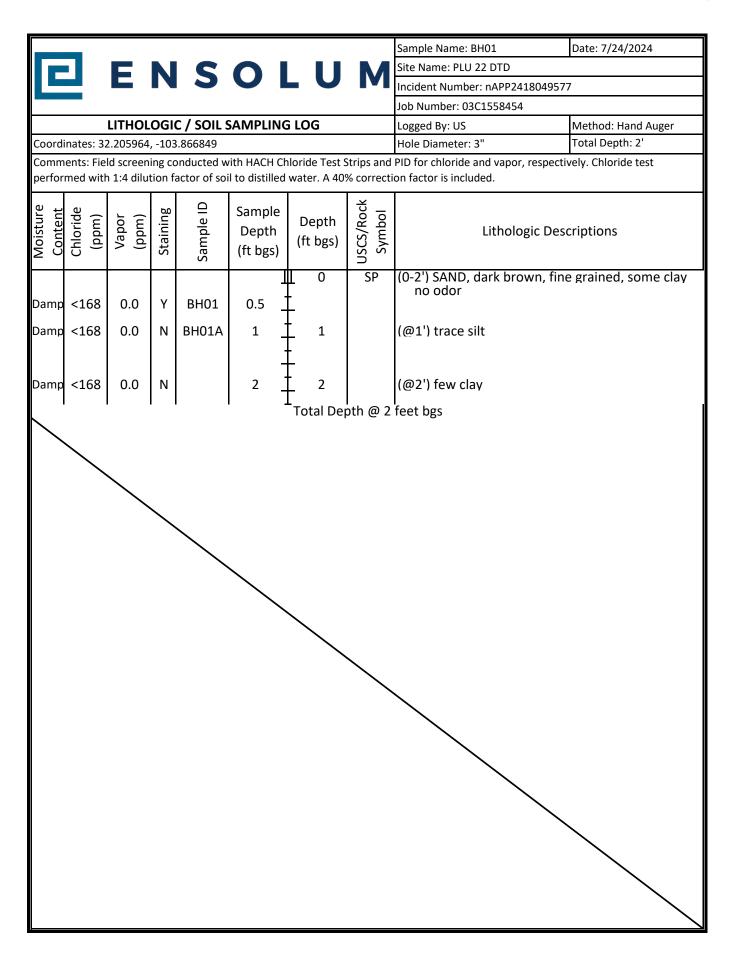
Description: Delineation activities

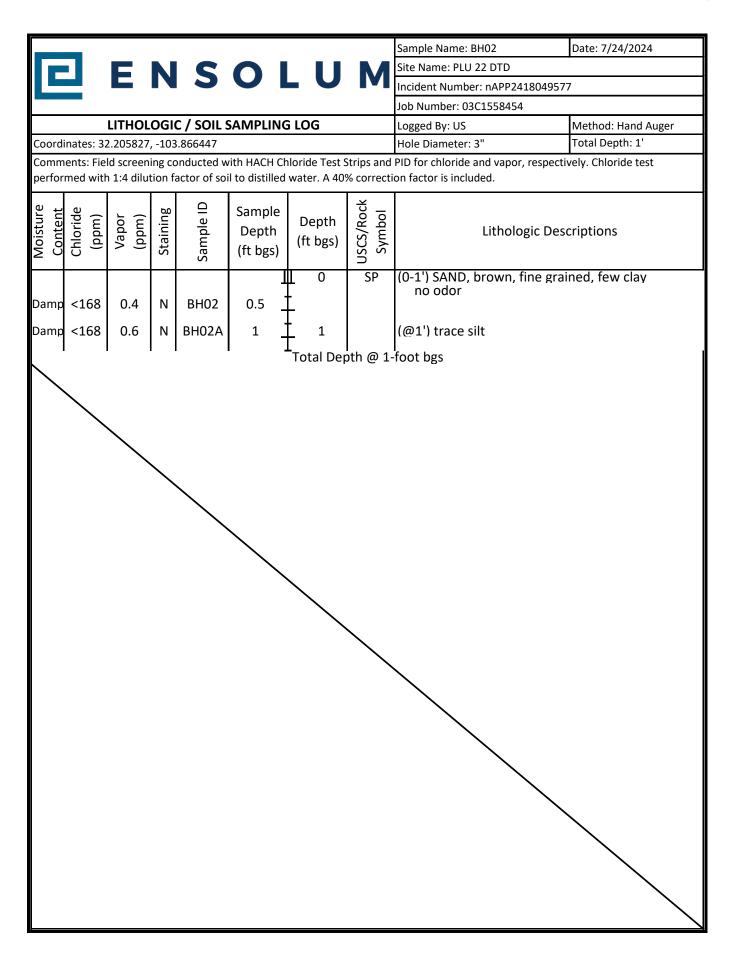
View: East

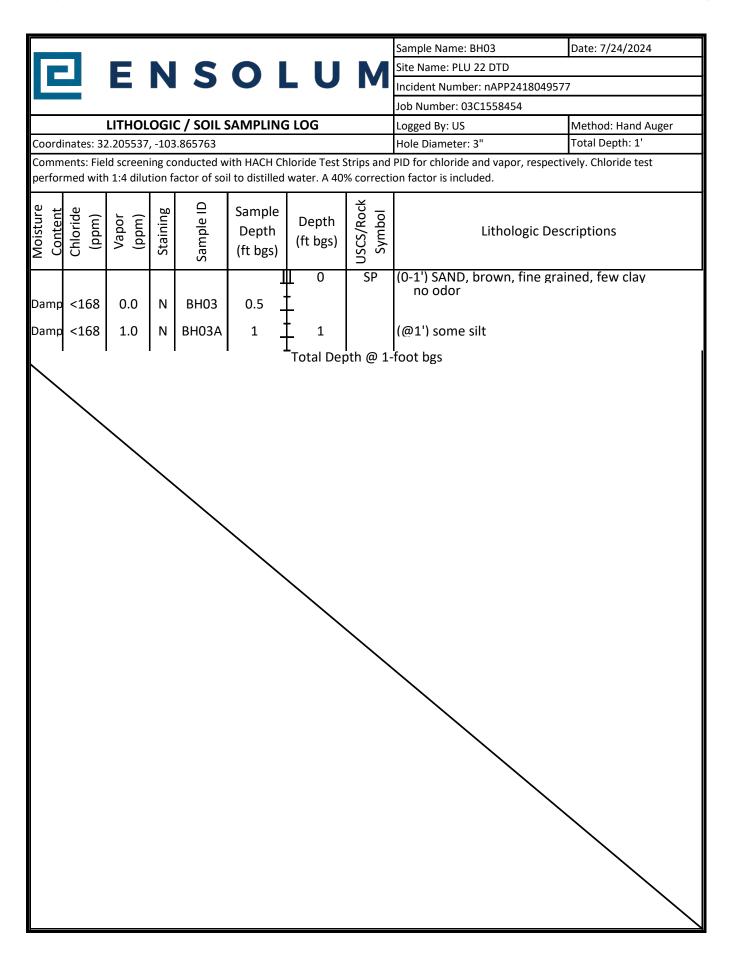


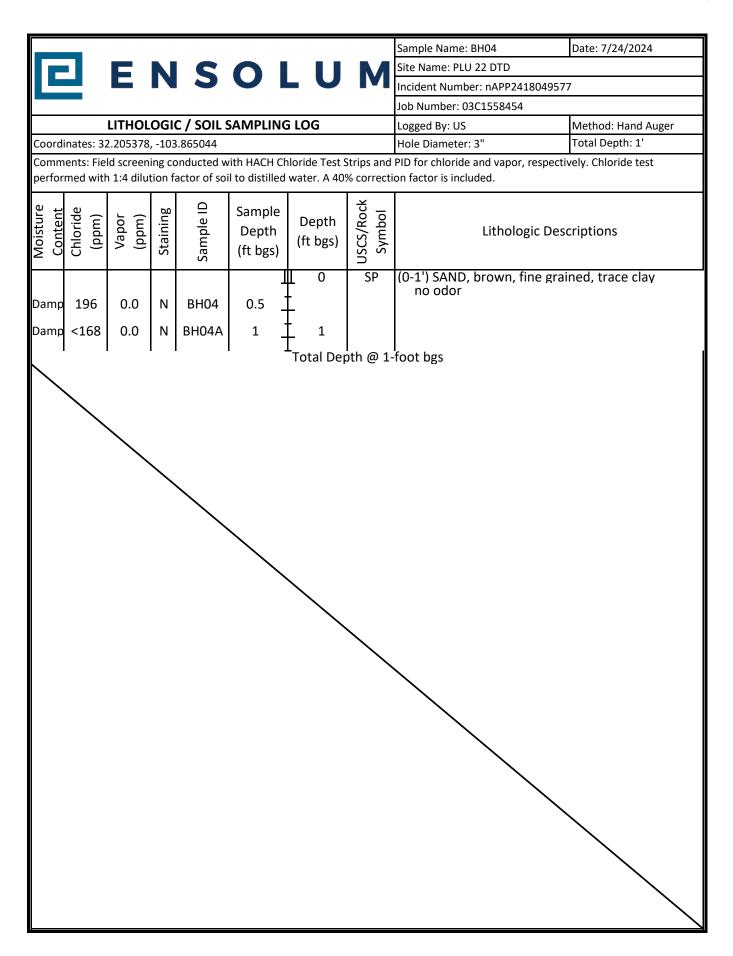
APPENDIX C

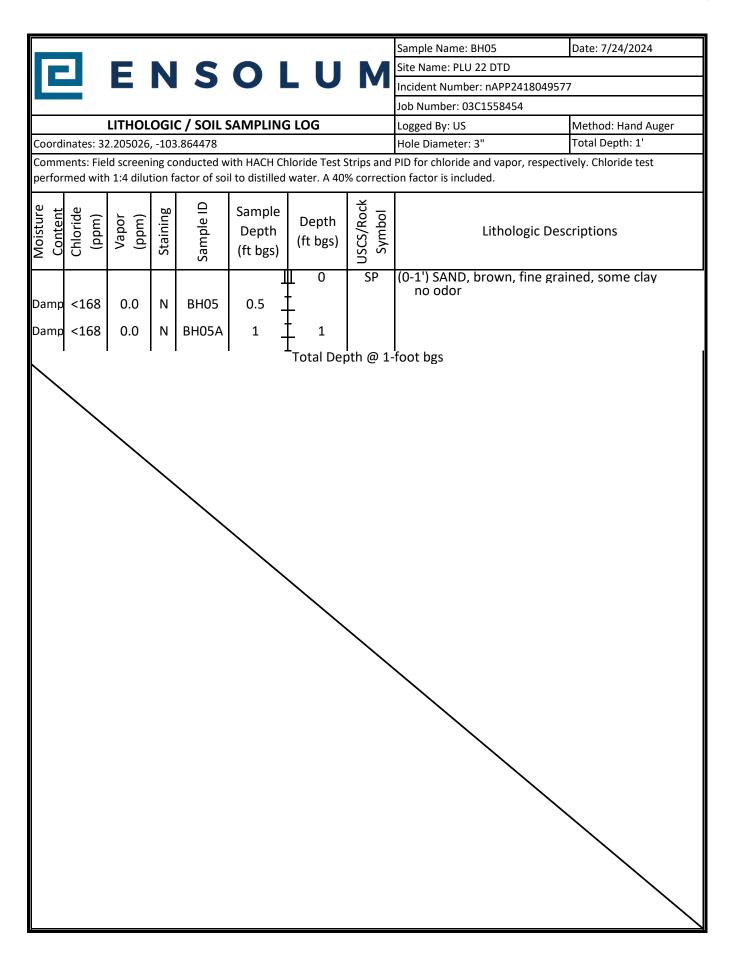
Lithologic Soil Sampling Logs

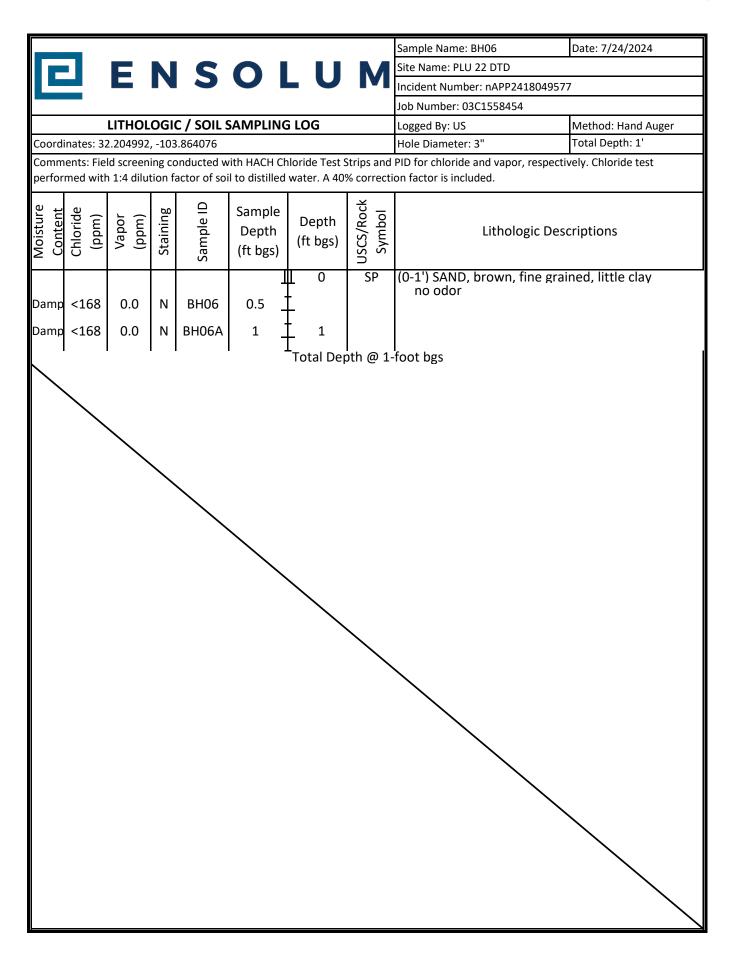














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



July 30, 2024

MARIAHA O'DELL ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 22 DTD

Enclosed are the results of analyses for samples received by the laboratory on 07/25/24 14:35.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 07/25/2024
 Sampling Date:
 07/24/2024

 Reported:
 07/30/2024
 Sampling Type:
 Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.206000,-103.866860

Sample ID: SS 01 0.5' (H244449-01)

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	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 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	<16.0	16.0	07/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.206000,-103.866860

ma/ka

Sample ID: SS 02 0.5' (H244449-02)

RTFY 8021R

BIEX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 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	<16.0	16.0	07/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: SS 03 0.5' (H244449-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	98.1	2.00	2.95		
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37		
Total BTEX	<0.300	0.300	07/29/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	208	16.0	07/29/2024	ND	432	108	400	3.64		
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	07/29/2024	ND	178	88.8	200	2.32		
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66		
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND						
Surrogate: 1-Chlorooctane	121	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8							

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Celey D. Keene



Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: SS 04 0.5' (H244449-04)

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	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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	16.0	16.0	07/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: SS 05 0.5' (H244449-05)

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	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	176	16.0	07/29/2024	ND	432	108	400	3.64	
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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: SS 06 0.5' (H244449-06)

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	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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	32.0	16.0	07/29/2024	ND	432	108	400	3.64	
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	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: SS 07 0.5' (H244449-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	288	16.0	07/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: SS 08 0.5' (H244449-08)

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	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	178	88.8	200	2.32	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	172	86.2	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: SS 09 0.5' (H244449-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	98.1	2.00	2.95	
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	144	16.0	07/29/2024	ND	432	108	400	3.64	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: SS 10 0.5' (H244449-10)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.0	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.206000,-103.866860

ma/ka

Sample ID: BH 01 0.5' (H244449-11)

RTFY 8021R

Analyte zene* uene* //benzene* al Xylenes*	Result <0.050 <0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 07/29/2024 07/29/2024	Method Blank	BS 2.20	% Recovery	True Value QC	RPD	Qualifier
iene* /lbenzene*	<0.050			ND	2.20	110			
/lbenzene*		0.050	07/29/2024			110	2.00	8.58	
	<0.050		07/25/2021	ND	2.27	113	2.00	9.03	
al Xylenes*		0.050	07/29/2024	ND	2.42	121	2.00	9.90	
	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
al BTEX	<0.300	0.300	07/29/2024	ND					
rogate: 4-Bromofluorobenzene (F	PID 111 %	6 71.5-13	4						
oride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
oride	32.0	16.0	07/29/2024	ND	480	120	400	10.5	
8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
) C6-C10*	<10.0	10.0	07/29/2024	ND	177	88.3	200	4.71	
) >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
rogate: 1-Chlorooctane	91.8 9	% 48.2-13	4						
	89.89	% 49.1-14	8						
DRO >C28-C36	<10.0 91.8 9	10.0	07/29/2024		170	04.0	200	_	

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558454 Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 01A 1' (H244449-12)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 02 0.5' (H244449-13)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	< 0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558454 Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 02A 1' (H244449-14)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 03 0.5' (H244449-15)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 03A 1' (H244449-16)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.206000,-103.866860

ma/ka

Sample ID: BH 04 0.5' (H244449-17)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 04A 1' (H244449-18)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	128	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

Sample ID: BH 05 0.5' (H244449-19)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	32.0	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 05A 1' (H244449-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	<16.0	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 06 0.5' (H244449-21)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	80.0	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM MARIAHA O'DELL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/25/2024 Sampling Date: 07/24/2024

Reported: 07/30/2024 Sampling Type: Soil

Project Name: PLU 22 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

Sample ID: BH 06A 1' (H244449-22)

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	07/29/2024	ND	2.20	110	2.00	8.58	
Toluene*	<0.050	0.050	07/29/2024	ND	2.27	113	2.00	9.03	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.42	121	2.00	9.90	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.18	120	6.00	9.57	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2024	ND	480	120	400	10.5	
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	07/29/2024	ND	177	88.3	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	170	84.8	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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Celey D. Keene



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

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Company Name: Ensolum, LLC			BILL TO	,			
Project Manage	Project Manager: Mariaha O'dell			P.O. #:		ANALYSIS	REQUEST	
Address: 3122	Address: 3122 National Parks Hwy	Hwy		XTO	Energy			_
city: Carlsbad		State:NM	Zip:88220	Attn: Amy Ruth	cigy			_
Phone #: 970-319-4364	19-4364	Fax #:			Green st			
Project #: 03C1558454	1558454	Project Owner:	er:					_
Project Name: PLU 22 DTD	LU 22 DTD			State: NM zin: 88220	220			
Project Location	Project Location: 32.206000, -103.866860	03.866860						_
Sampler Name: Uriel Santillana	Uriel Santillana			#				
FOR LAB USE ONLY				1				
			R	PRESERV. SAI	9	X		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	Chloric TPH	BTEX		
-	5501	0,5	1 X	Z Z	=	×	+	+
20	2044							+
	1703				1329			+
2	7707				1349			+
	2022				13 55			+
٤	2000				1450			
2	1000				1448			+
00	2000				1533			
₹.	0155	4	4	•	1539			- 1
PLEASE NOTE: Liability and analyses, All claims including service. In no event shall Care	PLEASE NOTE: Lability and Damages. Cardinal's liability and clie analyses. All claims including those for negligence and any other of service. In no event shall Cardinal be liable for incidental or consec-	nd client's exclusive remedy for other cause whatsoever shall be	**************************************	r tort, shall be limited to the amount pa received by Cardinal within 30 days att	id by the client for the er completion of the applicable			-
Relinquished By:	out of or related to the perform	vance of services hereunder by	infliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such daim is based upon any of the above stated reasons or otherwise. Relinquis hed By:	ss of use, or loss of profits incurred by based upon any of the above stated re				
() Sand	7.	25.58-17 17-35-24	Vecelved ph.	Make	Verbal Result:	Verbal Result: Ves No Add'l Phone #: All Results are emailed. Please provide Email address: Modell@ensolum.com	n	
veililduisned by:		Date:	Received By:	1	REMARKS: Cost Center: 2229831001 8 Incident Number: nAPP2418049577	REMARKS: Cost Center: 2229831001 & 2250241001 Incident Number: nAPP2418049577	50241001	
Sampler - UPS - Bus - Other:	us - Other:	Corrected Temp. °C	Sample Condition Cool Intact Cool Intact	n CHECKED BY: (Initials)	Turnaround Time: St	Standard B Bacteria (on Rush Cool Intact	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C	
FURM-000 R	3.2 (0/0//2)	+ Cardinal a	ON ON		Correction Factor -050 70	126/24 NO NO	No Corrected Temp. °C	

Relinquished By:

Time: 455

Received By:

Time:

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

Observed Tamp. "C

D

Sample Condition
Cool Intact
Ares Ares
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Observed Temp. °C
Corrected Temp. °C

neter ID

Yes Yes

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CHAIN-OF-CUSTODY A

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240 (576) 393-2326 FAX (575) 393-2476

Company Name: Encolum 11C	Encolum III					
Project Manage	The state of the s			BILL TO		ANALYSIS REQUEST
Project Manage	Project Manager: Mariaha O'dell			P.O. #:		
Address: 3122	Address: 3122 National Parks Hwy	wy		Company: XTO Energy		
city: Carlsbad		State: NM	Zip:88220	Attn: Amy Ruth		
Phone #:970-319-4364	19-4364	Fax #:		Address: 3104 E Green st	nst	
Project #: 03C1558454	558454	Project Owner:	er:	city: Carlsbad		
Project Name: PLU 22 DTD	LU 22 DTD			State: NM 7in: 88220		
Project I postion	Project Location: 32 206000 -103 866860	038338				
Froject Location	1: 32.200000, -103	0.000000		Phone #:		
Sampler Name: Uriel Santillana	Uriel Santillana			Fax #:		
FOR LAB USE ONLY			MATRIX	PRESERV SAMPLING		
2	Sample	Depth	IERS /ATER	7	oride H	
24444A	Sample I.D.	(feet)	(G)RAB OR # CONTAINI GROUNDW, WASTEWAT SOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	Chlo	
=	BHOI	0,5	1 X	40/40/C X	13/2	
7	BROZ A	14	-	10101	132	
ū	BH02	0.5			1730	
2	BH02A	2			1236	
7	BH03	0.5			1346	
6	3 KO3A	2			347	
	BHOY	0,5			1441	
-	SHOUA	1			1444	
19	BH05	0.5			1579	
70	BHOSA	1	+	<	1531	
EASE NOTE: Liability and alyses, All claims including vice. In no event shall Card	Damages. Cardinal's liability and cli those for negligence and any other linal be liable for incidental or conso	ent's exclusive remedy for a cause whatsoever shall be quental damages, including	ny claim arising whether based in contract deemed walved unless made in witing 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 tout, shall be limited to the amount paid by the client for the snak) results. All claims including those for registence and any other cause whatever be deemed walved unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without initiation, business interruptions, located use, or both of tookins incurred by cardinal services.	he client for the pletton of the applicable	
Relinquished By:	out of or related to the performance	Date; 7d	te; 7 Received By:	is based upon any of the above stated reason	ılt: □ Yes □ No	Add'l Phone #:
5	7	1-00-07	1	//// / AI	emailed. Please prov	de Email address:

REMARKS: Cost Center: 2229831001 & 2250241001

Modell@ensolum.com

Incident Number: nAPP2418049577

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Company Name: Ensolum, LLC			BILL		
Project Manage	Project Manager: Mariaha O'dell			PO #-		ANALTOIS REQUEST
Address: 3122	Address: 3122 National Parks Hwy	lwy		Company: XTO Energy	ray	
city: Carlsbad		State: NM	zip:88220	Attn: Amy Ruth		
Phone #:970-319-4364	19-4364	Fax#:		111	Green st	
Project #: 03C1558454	1558454	Project Owner:				
Project Name: PLU 22 DTD	LU 22 DTD			State: NM 7in: 88220	20	
Project Location	Project Location: 32.206000, -103.866860	3.866860				
Sampler Name:	Sampler Name: Uriel Santillana			Fay #		
FOR LAB USE ONLY			MATRIX	1	L	
			ER	TRESERV	H	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)C CONTAINERS ROUNDWATE VASTEWATER OIL VIL LUDGE	THER: CID/BASE: CE / COOL THER:		BTE
12	BH06	01) 1 X	×	X X +101 12/12/1	X .
00	A SONG	12	X	×	X X X 6191	×
PLEASE NOTE: I SANGE						
analyses. All claims including service. In no event shall Car affliates or successors arising	analyses. All claims including those for negligence and any othe service. In no event shall Cardinal be liable for incidental or cons affaitates or successors arising out of or related to the performance.	r cause whatsoever shall be developed the development of the demages, including when of services hereunder by Carr	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless was no contract or fort, shall be limited to the amount paid by the client for the service. In one event shall Cardinal the liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by profits incurred by profits incurred by client, its substitutions, as affaitants or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	r fort, shall be limited to the amount pair received by Cardinal within 30 days afte ss of use, or loss of profits incurred by o based upon any of the above stated re-	d by the client for the completion of the applicable lient, its subsidiaries, acons or otherwise.	
118.0	7	5-24	Received By:	11111	sult: Yes	s □ No Add'I Phone #: Please provide Email address:
Je Same	(Time:435	" Adminated	Make		om
reilliquisned by:		Date:	Received By:		REMARKS: Cost Center Incident Number: nAl	REMARKS: Cost Center: 2229831001 & 2250241001 Incident Number: nAPP2418049577
Delivered By: (Circle One)		Observed Temp. "C	2.6 Sample Condition	CHECKED BY:	Turnaround Time: Star	andard 🔊 Bacteria (only) Sample Condition
Sampler - UPS - B	Other:	Corrected Temp. °C	Yes Yes	(Initials)	Thermometer ID #418 # 1440	Cool Intact ☐Yes ☐ Yes
LOUND-MODE S'S	3.2 10/0//21		г		Collection Losses	No No Corrected Temp. °C

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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 415065

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	415065
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418049577
Incident Name	NAPP2418049577 PLU 22 DTD @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2329131432] PLU 22 DTD CVB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 22 DTD
Date Release Discovered	06/26/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications t	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Vandalism Other (Specify) Crude Oil Released: 26 BBL Recovered: 0 BBL Lost: 26 BBL.
Produced Water Released (bbls) Details	Cause: Vandalism Other (Specify) Produced Water Released: 26 BBL Recovered: 0 BBL Lost: 26 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Illegal dump from a third party was discovered along XTO lease road. Eddy County Sheriff's Case#: L240001598 / Deputy A. Johnson

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

QUESTIONS, Page 2

Action 415065

QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road	OGRID: 5380 Action Number:
Midland, TX 79707	415065 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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 ted 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 require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Colton Brown Title: Environmental Advisor
I hereby agree and sign off to the above statement	Email: colton s brown@exxonmobil.com

Date: 12/26/2024

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Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 415065

QUESTIONS (continued)

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	415065
ı		Action Type:
ı		[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 100 and 200 (ft.)
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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	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	that apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	n plan approval with this submission	Yes
Attach a comprehensive report d	lemonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertice	cal extents of contamination been fully delineated	Yes
Was this release entirely	contained within a lined containment area	No
Soil Contamination Samplin	ng: (Provide the highest observable value for each, in m	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	288
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complete imelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
On what estimated date v	vill the remediation commence	07/09/2024
On what date will (or did)	the final sampling or liner inspection occur	12/23/2024
On what date will (or was) the remediation complete(d)	12/23/2024
What is the estimated sur	face area (in square feet) that will be reclaimed	1409
What is the estimated volu	ume (in cubic yards) that will be reclaimed	52
What is the estimated sur	face area (in square feet) that will be remediated	1409
What is the estimated volu	ume (in cubic yards) that will be remediated	52
These estimated dates and meas	surements are recognized to be the best guess or calculation at ti	he time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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

QUESTIONS, Page 4

Action 415065

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415065
	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	Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:		
(Select all answers below that apply.)			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]		
OR which OCD approved well (API) will be used for off-site disposal	Not answered.		
OR is the off-site disposal site, to be used, out-of-state	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)	Yes		
Other Non-listed Remedial Process. Please specify	Confirm absence of impacted soil		

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

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

I hereby agree and sign off to the above statement

Name: Colton Brown Title: Environmental Advisor

Email: colton.s.brown@exxonmobil.com

Date: 12/26/2024

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.

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

QUESTIONS, Page 5

Action 415065

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415065
	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

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

QUESTIONS, Page 6

Action 415065

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415065
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded 405352	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/27/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	4000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	1409
What was the total volume (cubic yards) remediated	52
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	1409
What was the total volume (in cubic yards) reclaimed	52
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation, and excavation activities were conducted at the Site to address the June 6, 2024, release of produced water and crude oil. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated that all COC concentrations were compliant with the Closure Criteria. Based on soil sample analytical results, no further remediation was required. The excavation has been backfilled with material purchased locally and recontour the Site to match pre-existing Site conditions. Excavation of impacted soil has mitigated impacts at the Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater.

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 o 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: 12/26/2024

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 415065

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415065
	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

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

CONDITIONS

Action 415065

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	415065
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/10/2025