

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**

Tracy Hillard Project Manager

Tought Hard

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



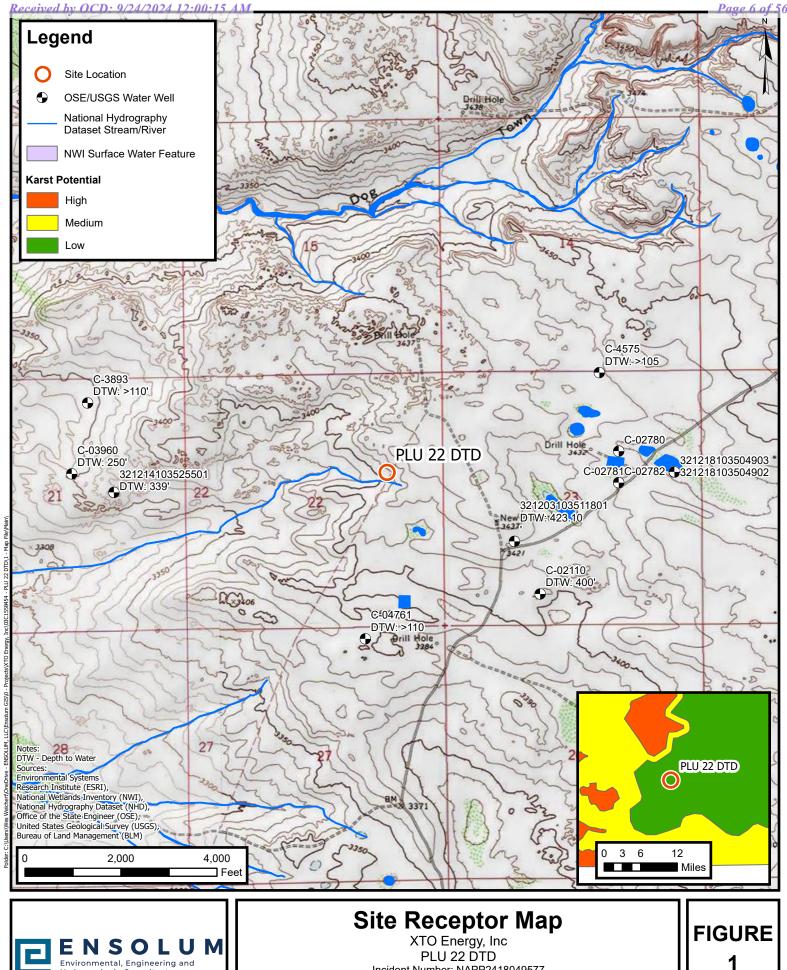
Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

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



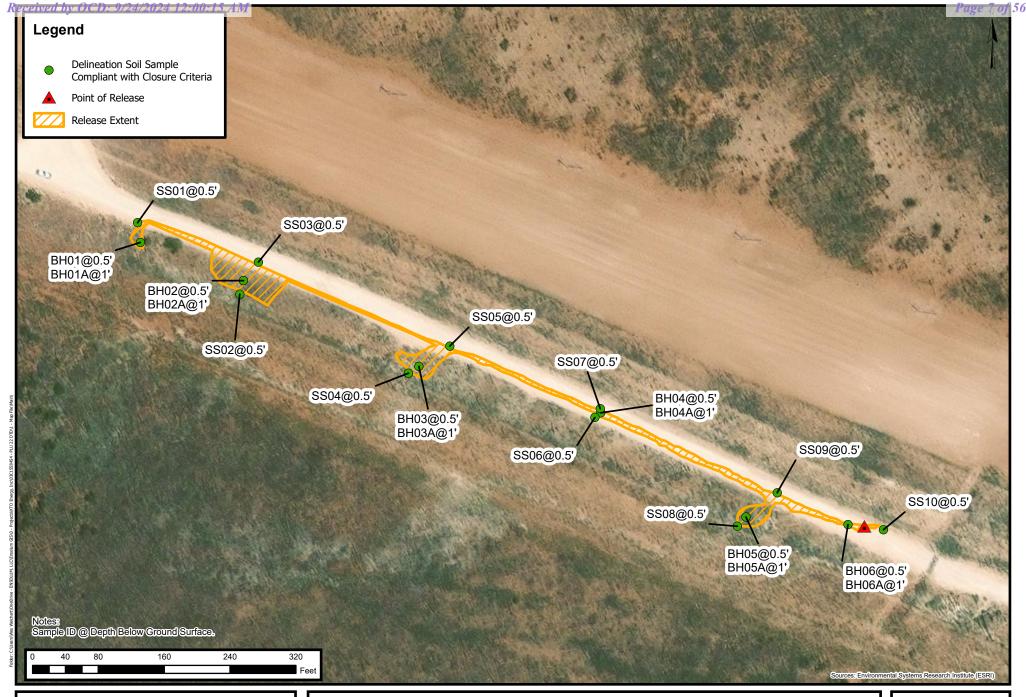
FIGURES





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

Released to Imaging: 9/26/2024 4:28:48 PM





Released to Imaging: 9/26/2024 4:28:48 PM

Delineation Soil Sample LocationsXTO Energy, Inc PLU 22 DTD

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

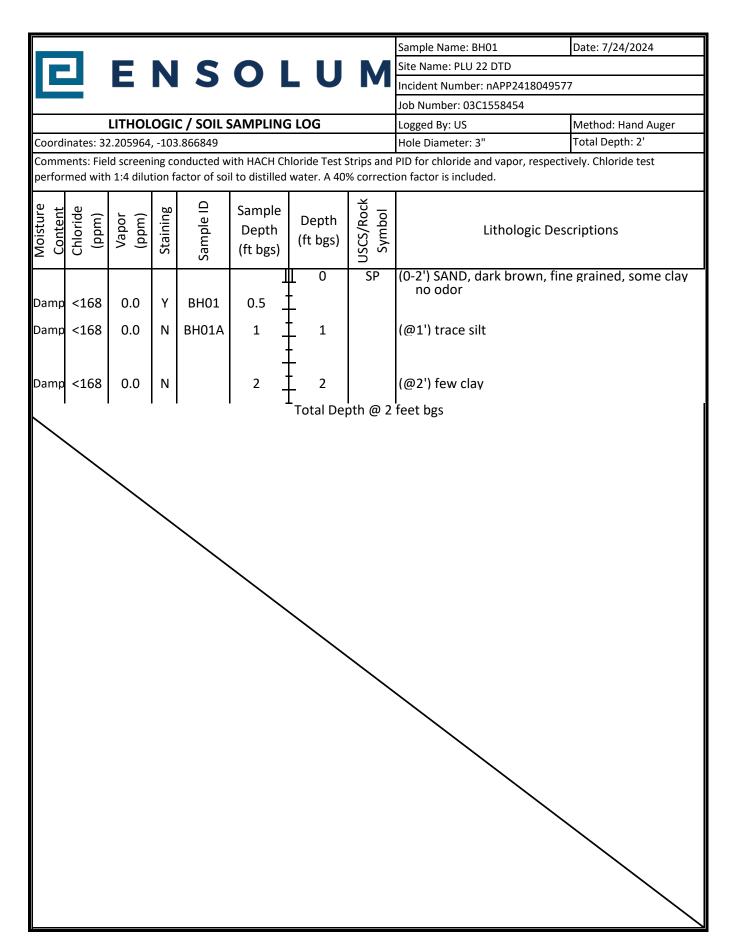
Description: Delineation activities

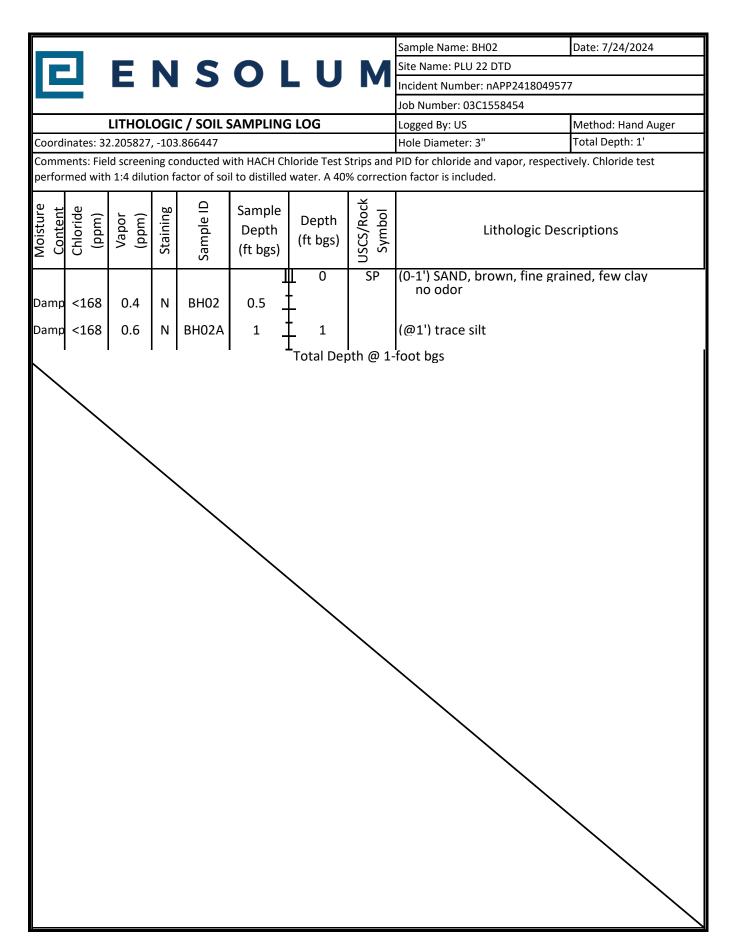
View: East

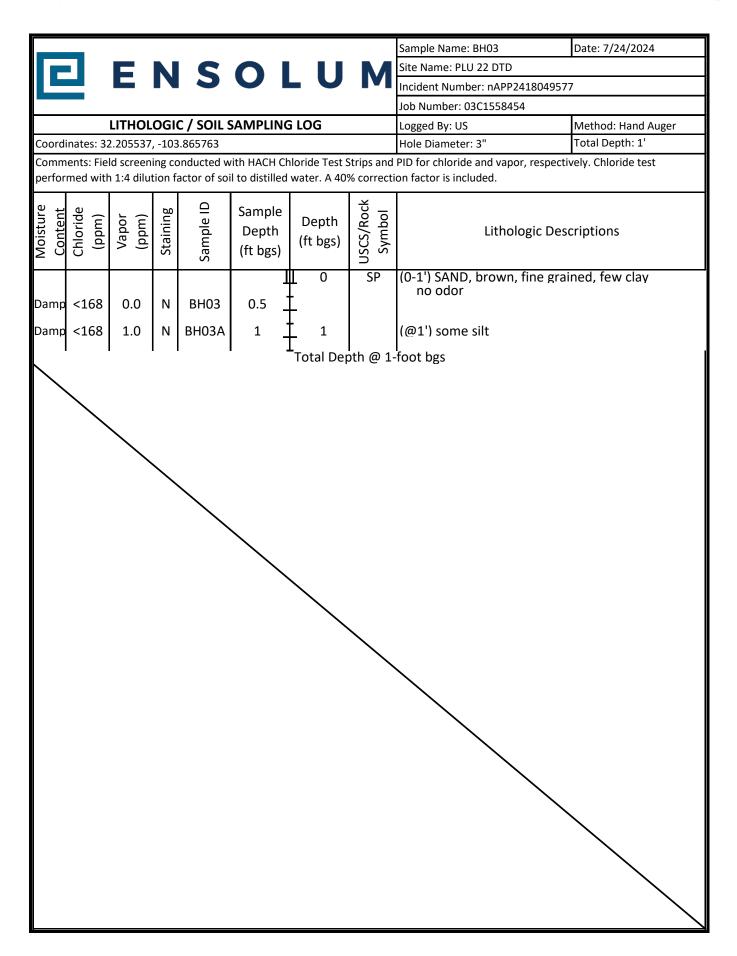


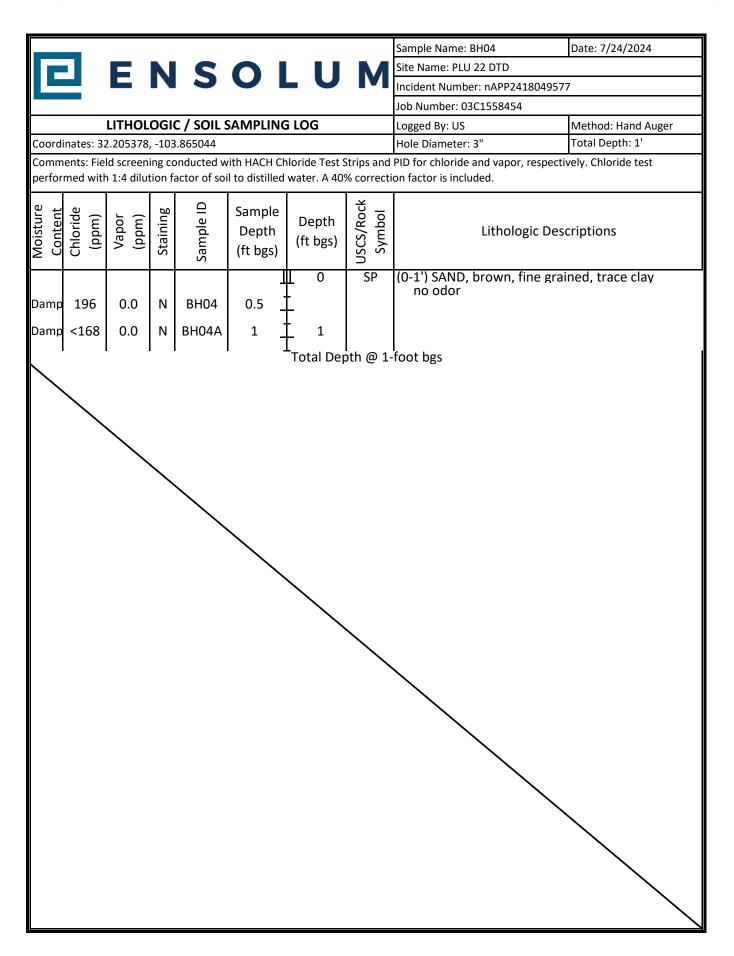
APPENDIX C

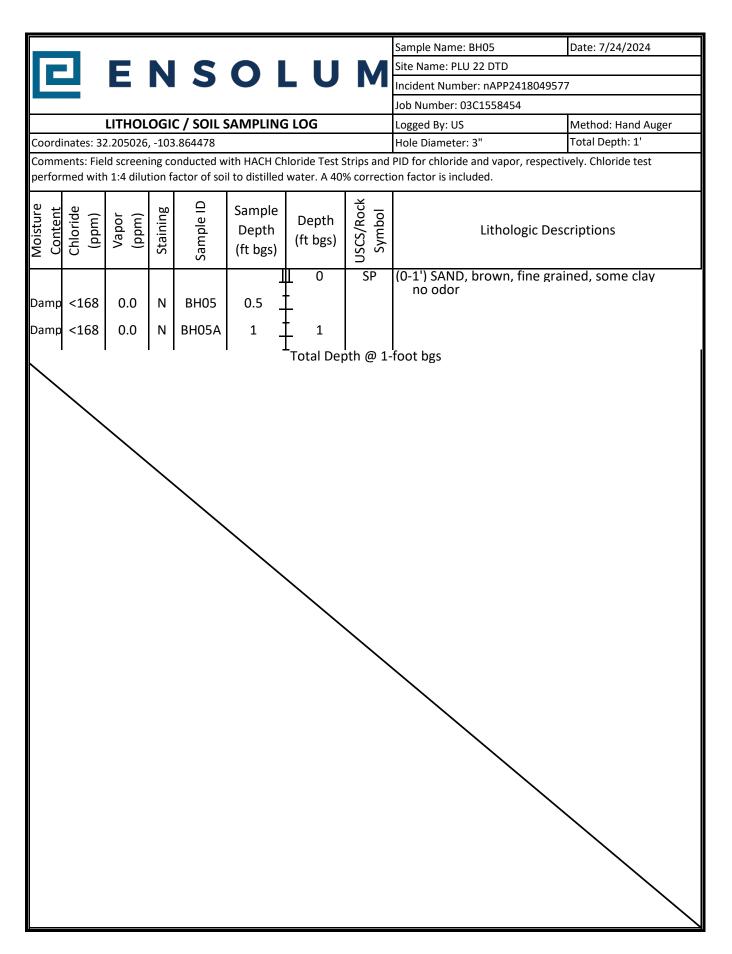
Lithologic Soil Sampling Logs

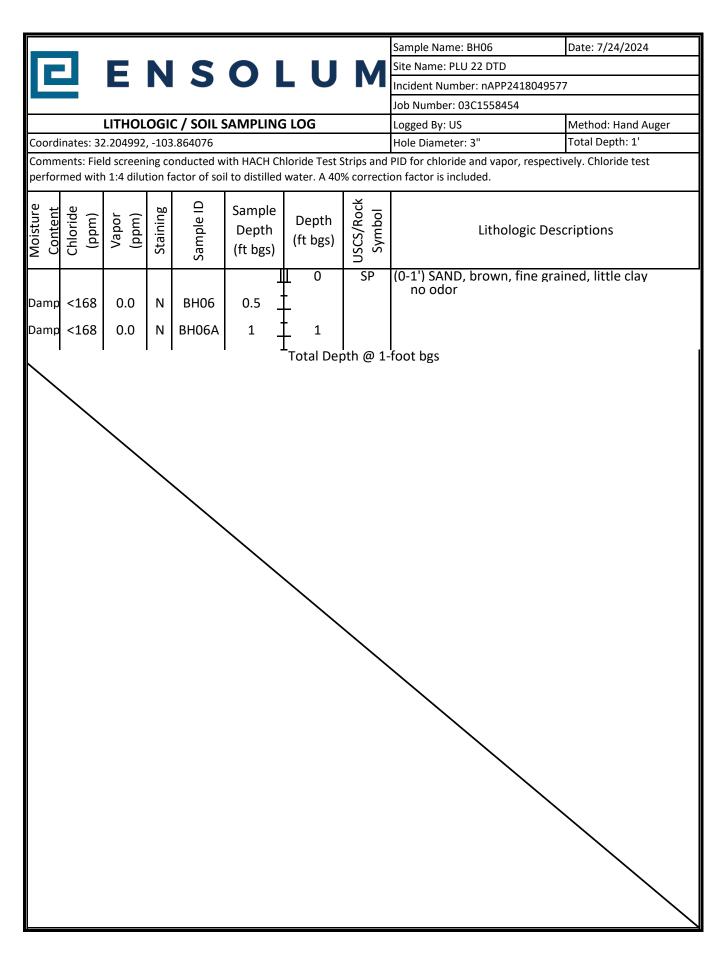














APPENDIX D

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 07/25/2024

 Reported:
 07/30/2024

 Project Name:
 PLU 22 DTD

Project Name: PLU 22 DTD
Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860

Sampling Date: 07/24/2024

Sampling Type: Soil

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

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

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, 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	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

ENSOLUM 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	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	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, 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	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

ENSOLUM 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: SS 03 0.5' (H244449-03)

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	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	Analyzed 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	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	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

Reported: 07/30/2024 Project Name: PLU 22 DTD

Project Number: 03C1558454

Project Location: XTO 32.206000,-103.866860 Sampling Date: 07/24/2024

Sampling Type: Soil

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

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

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	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		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	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 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: SS 05 0.5' (H244449-05)

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	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	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	123 9	% 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 06 0.5' (H244449-06)

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	96.1	% 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

	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	96.4	% 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	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 Sample Received By: Tamara Oldaker Project Number: 03C1558454

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						
oride, 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	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 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
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

	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	96.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed 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	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	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	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	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

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

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

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	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	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	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 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 01A 1' (H244449-12)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 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		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	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 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: BH 02 0.5' (H244449-13)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, 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		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	101 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 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

Project Location: XTO 32.206000,-103.866860

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

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	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
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.206000,-103.866860

mg/kg

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

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	109	% 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	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 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: BH 03A 1' (H244449-16)

BTEX 8021B

DILX GOZID	iiig/	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	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	% 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
Project Number: 03C1558454 Sample Received By: Tamara Oldaker

Project Location: XTO 32.206000,-103.866860

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

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	128	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	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	18						

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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 05 0.5' (H244449-19)

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, 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	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	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 Sample Received By: Tamara Oldaker Project Number: 03C1558454

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, 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	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 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: BH 06 0.5' (H244449-21)

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	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	Analyze	ed 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	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	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 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

Project Location: XTO 32.206000,-103.866860

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

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	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Maine	ompany Name. Ensolum, LLC			BILL TO	ANAL VOIC DECLIEST	
Project Manage	Project Manager: Mariaha O'dell			P.O. #:	ANALTSIS REQUEST	1
Address: 3122	Address: 3122 National Parks Hwy	Hwy		Company: XTO Energy	OV O	
city: Carlsbad		State:NM	zip:88220	Attn: Amy Ruth		
Phone #:9/0-319-4364	19-4364	Fax #:		111	Green st	
Project #: 03C1558454	558454	Project Owner:				
Project Name: PLU 22 DTD	LU 22 DTD			State: NM Zin: 88220	20	
Project Location	Project Location: 32.206000, -103.866860	03.866860				_
Sampler Name: Uriel Santillana	Jriel Santillana			Fav #		
FOR LAB USE ONLY			L	1	L	
			MP.	PRESERV. SAM		
Lab I.D.	Sample I.D.	Depth (feet)		ASE:	PH TEX	
+1244449			# CON GROU WAST SOIL OIL SLUDG	OTHE ACID/R ICE / C OTHE	B	
3-	1066	0,5	51 X	H2/H2/E X	1133 XXX	1
זמ	2066				1240	
	2003				1329	
1	2027				1349	
S	2506				15 23	
١	4035					
000	8055				533	
2	6036				1539	
PLEASE NOTE: Liability and Dama	Damages. Cardinal's liability and	client's exclusive remedy for a	ges. Cardinal's liability and client's exclusive remedy for any claim arising whether based is confised action and the world of the confised action and the confised action action and the confised action action and the confised action action action action action and the confised action	4	T T A 0551	
service. In no event shall Card affiliates or successors arising	ing unose for negligence and any other ardinal or liable for incidental or congount of or related to the performance.	her cause whatsoever shall be d insequental damages, including ince of services hereunder by Ca	service. In no event shall Cardinal to leible for incidental or consequential disease, including whose unless made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the performance of services hereunder by Cardinal reporting to make the relationship out of or related to the performance of services hereunder by Cardinal reporting to revenue the relationship out of or related to the performance of services hereunder by Cardinal reporting to revenue to the relationship out of or related to the performance of services hereunder by Cardinal reporting to revenue to the relationship out of or related to the performance of services hereunder by Cardinal reporting to the relationship out of or related to the performance of services hereunder by Cardinal reporting to the relationship out of or related to the performance of services hereunder by Cardinal reporting to the relationship of the rel	d received by Cardinal within 30 days after oloss of use, or loss of profits incurred by clie	omplement or are complement of the applicable of	
Kelinquished By:	1.	Date: 7-25-24	Received By:		Verbal Result: Yes No Add'l Phone #: All Results are emailed Please provide Email address:	
Relinquished By:	2	Se th	Munarau	Malaka	Modell@ensolum.com	
		Time:	Received By:	1	REMARKS: Cost Center: 2229831001 & 2250241001 Incident Number: nAPP2418049577	
Delivered By: (Circle One)		Observed Temp. °C 2.6		CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition	
Sampler - UPS - Bu	Bus - Other:	Corrected Temp. °C	Tes Tres	(Initials)	Rush TI/40	റ്
NOON WAS	3.2 10/0//21	+ Cardinal co		2	LI No LI No Corrected Temp. °C	റ്

Relinquished By:

Time: 455

Received By:

Time:

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

Observed Temp. °C

2.6

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY: (Initials)

Turnaround Time:
Thermometer ID #443

Standard

☐ Yes ☐ Yes ☐ No ☐ No

Bacteria (only) Sample Condition Cool Intact Observed Temp.

Observed Temp. °C

Corrected Temp. °C

DY AND ANALYSIS DECL



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Maine, Elisolum, LLC			
Project Manager: Mariaha O'dell		BILL 10	ANALYSIS REQUEST
Address: 3122 National Parks Hwy	Hwy	Company: XTO Energy	
city: Carlsbad	State:NM Zip:88220	Attn: Amy Ruth	
Phone #:970-319-4364	Fax #:	Address: 3104 E Green st	
Project #: 03C1558454	Project Owner:		
Project Name: PLU 22 DTD		State: NM 7in: 88220	
Project Location: 32.206000 -103 866860	3 866860	3	
Partition Contillors		Phone #:	
Sampler Name: Uriel Santillana		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING	
	2		X
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorid TPH BTEX
11 BHOI	1 X	1/24/24 X	
2 3 HOZ A	12		
13 BH02	0.5'	1230	
BHOZA	2	1236	
15 BH03	0.5	1346	
G HO3A	7	4481	
17 BHOY	0.5	144	
SHOUL	2	1 440	
19 BH05	0,5	1579	
70 BH05A	1 + + +	V 53	
LEASE NOTE: Liability and Damages. Cardinal's liability and	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	t or fort, shall be limited to the amount paid by the client f	or the
valves. All claims including those for negligence and any oth rvice. In no event shall Cardinal be liable for incidental or cor trates or successors arising out of or related to the performan	arrilyses. An Clarins including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal recordings.	d received by Cardinal within 30 days after completion of loss of use, or loss of profits incurred by client, its subsid	viv. ure viv. ure liaites, liaites,
Relinquished By:	Date; 55.74 Received By:	Verbal Result:	\text{\text{\text{Ves}}} \text{\text{Ves}} \text{\text{No}} \text{\text{Add'I Phone #:}}
Demont	Time: 122 Million		re emailed. Please prov

REMARKS: Cost Center: 2229831001 & 2250241001

Modell@ensolum.com

Incident Number: nAPP2418049577

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

Observed Temp. °C 26

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Yes Yes

Bacteria (only) Sample Condition Cool Intact Observed Temp.

Observed Temp. °C
Corrected Temp. °C

Date: Time:

Relinquished By:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CU

CV

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

Company Name: Ensolum, LLC	insolum, LLC			BILL TO	-
Project Manager: Mariaha O'dell	Mariaha O'dell			P.O. #:	ANALISIS REGUEST
Address: 3122 N	Address: 3122 National Parks Hwy	wy		Company: XTO Energy	
city: Carlsbad	S	State: NM	Zip:88220	Attn: Amy Ruth	
Phone #:970-319-4364	-4364	Fax #:		Address: 3104 E Green st	
Project #: 03C1558454	58454	Project Owner:		city: Carlsbad	
Project Name: PLU 22 DTD	J 22 DTD			State: NM Zin: 88220	
Project Location: 32.206000, -103.866860	32.206000, -103	.866860			
Sampler Name: Uriel Santillana	iel Santillana			Fax #:	
FOR LAB USE ONLY			MATRIX	ECEDV	-
) :	RS TER R	OMIL LING	Н
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C) # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	CHION TPI BTE
2	BH06	8.0	1 メ	1 12/112/t X	XXX
12.	Y JOHG	4	G 1 ×	× + 1619	××××
PLEASE NOTE: Liability and Dan	nages, Cardinal's liability and clie	ent's exclusive remedy for any	claim arising whether based in contract or	PLEASE NOTE: Liability and Darmages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount and but the allow the allow the standard to the amount and but the allow the standard to the amount and but the allow the standard to the amount and but the allow the standard to the amount and but the allow the standard to the amount and but the allow the standard to the amount and but the allow the standard to the amount and but the allow the standard to the amount and but the standard to the standard to the amount and but the standard to the standard to the amount and but the standard to the	
analyses. All claims including those service. In no event shall Cardinal affiliates or successors arising out	se for negligence and any other be liable for incidental or conse of or related to the performance	cause whatsoever shall be deaquental damages, including wood services hereunder by Caro	emed walved unless made in writing and ry thout limitation, business interruptions, los linal, recardless of whether such claim is	analyses. All dalms including those for negligence and any other cause whatsoever shall be deemed waived unless made in white year of the cause of the cause of the cause of the cause of the service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors attributed or related to the performance of services hereurder by Cardinals, regardless of whether such a claim is benefit or more of the cause of profits incurred by client, its subsidiaries,	the applicable ries,
Kelinquished By:	1	725-24	24 Received By:	Verbal Result:	sult:
The state of the s		Time: (2)	1	All Results	All Results are emailed. Please provide Email address:

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

Page 27 of 27

REMARKS: Cost Center: 2229831001 & 2250241001

Modell@ensolum.com

Incident Number: nAPP2418049577

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

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

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

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

QUESTIONS

Action 385940

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418049577
Incident Name	NAPP2418049577 PLU 22 DTD @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Received

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	for 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

District I

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 385940

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety 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.	

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

Name: Colton Brown
Title: Environmental Advisor
Email: colton.s.brown@exxonmobil.com
Date: 09/23/2024

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

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

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

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

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

QUESTIONS, Page 3

Action 385940

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	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 and 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	

the appropriate district office no later than 90 days after the release discovery date. Yes	
Yes	
1 122	
n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Yes	
No	
illigrams per kilograms.)	
288	
0	
0	
0	
0	
d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC	
07/09/2024	
12/23/2024	
12/23/2024	
10200	
0	
0	
0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	

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

District I

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

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

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

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

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

QUESTIONS, Page 4

Action 385940

QUESTIONS ((continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Domestication Plan (continued)			
Remediation Plan (continued)			
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate	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.)	No		
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.		
(In Situ) Soil Vapor Extraction	Not answered.		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.		
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.		
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.		
OTHER (Non-listed remedial process)	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: 09/23/2024

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

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QUESTIONS, Page 5

Action 385940

QUESTIONS (continued)

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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 385940

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	365128
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/24/2024
What was the (estimated) number of samples that were to be gathered	35
What was the sampling surface area in square feet	7000

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

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CONDITIONS

Action 385940

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	385940
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance request to collect confirmation samples every 400 ft2 is approved. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	9/26/2024