



March 31, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Reclamation Report
PLU 043 SWD
Incident Number nAPP2426227740
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Reclamation Report* for the PLU 043 SWD (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

BACKGROUND

The Site is located in Unit M, Section 21, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.197664°, -103.789553°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On September 17, 2024, a leak developed on a riser resulting in the release of approximately 1,029 barrels (bbls) of produced water onto a right-of-way (ROW) and adjacent pasture area. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 790 bbls of released produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and an Initial C-141 Application (C-141) on September 18, 2024. The release was assigned Incident Number nAPP2426227740.

Delineation and excavation of impacted soil was completed at the Site between February 4 and February 14, 2025. The final excavation measured approximately 10,000 square feet. A total of approximately 1,480 cubic yards of impacted soil were removed during the excavation activities. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on March 17, 2025. The NMOCD approved the *Closure Request* on March 21, 2025. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as an appendix in this report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

XTO Energy, Inc
Reclamation Report
PLU 043 SWD

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled and the disturbed area was restored to its original condition. The excavation area in the pasture was backfilled with locally procured topsoil. Following backfill activities, the disturbed area was graded and contoured to match the surrounding topography. The release extent and reclamation area are shown on the attached Figure 1.

One representative 5-point composite sample (BF01) was collected from the topsoil backfill material on March 13, 2026. The backfill soil sample was transported under strict chain-of-custody procedures to Eurofins Environment Testing in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)–gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Methods 8015NM/8015B NM; and chloride following Standards Method 300.0.

Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg), BTEX concentrations less than 50 mg/kg, and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix A. Photographic documentation of the current Site condition is included in Appendix B.

The pasture area will be seeded during the Spring of 2026, when temperatures and precipitation are conducive to vegetation growth. The Site will be seeded with the below BLM seed mix #2 for sandy sites at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled, and the seed will be covered by chaining or harrowing the Site.

VEGETATION MONITORING

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD and BLM once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

XTO Energy, Inc
Reclamation Report
PLU 043 SWD

RECLAMATION APPROVAL REQUEST

The approved March 17, 2025, *Closure Request* is included in Appendix C. Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, XTO respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident nAPP2426227740.

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

Sincerely,
Ensolum, LLC



Kim Thomason
Project Engineer



Aimee Cole
Senior Managing Scientist

cc: Robert Woodall, XTO
Richard Kotzur, XTO
Quan Tran, XTO
Bureau of Land Management

Appendices:

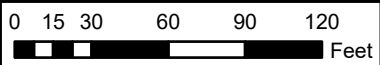
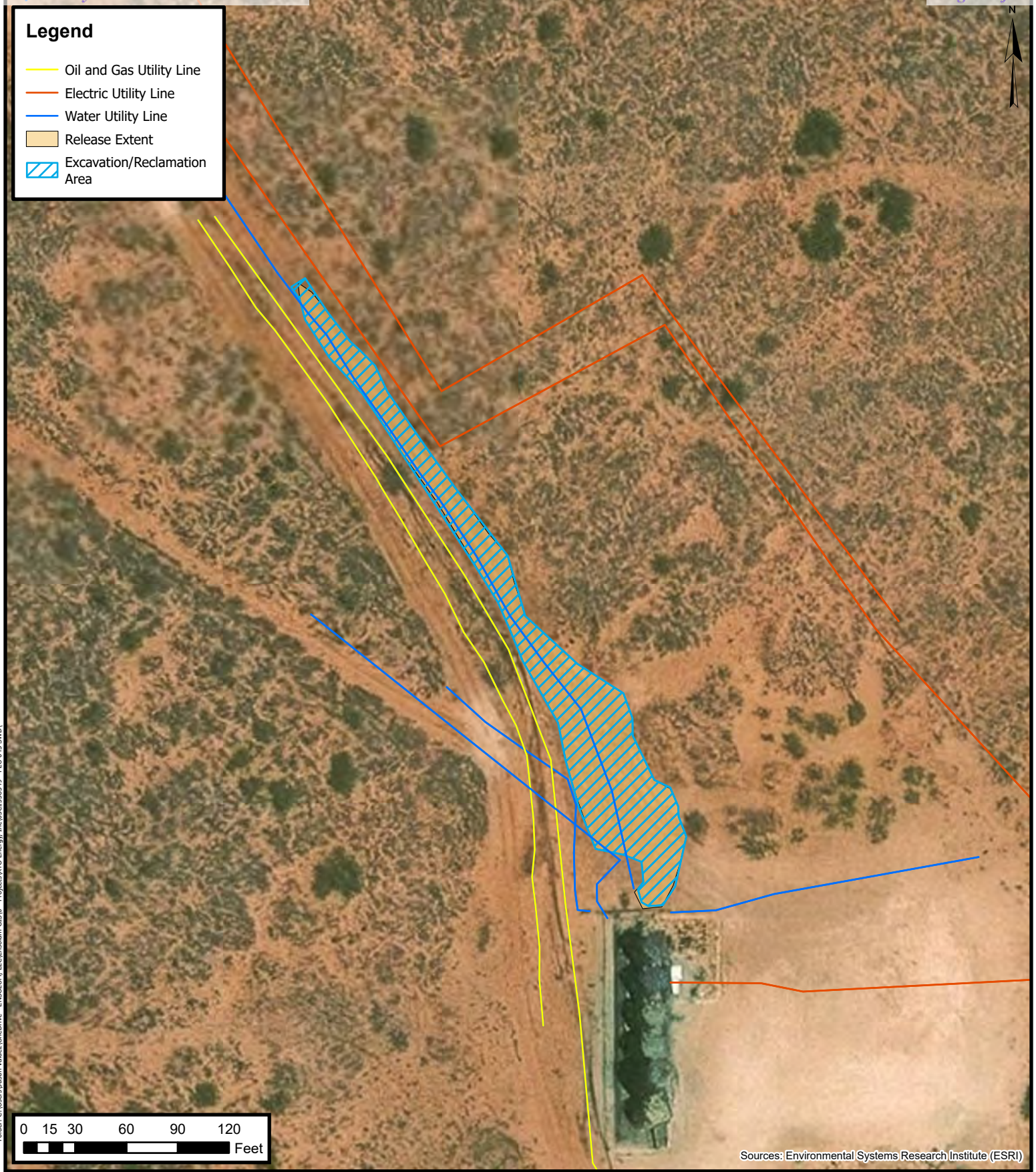
- Figure 1 Reclamation Area
- Table 1 Backfill Soil Sample Analytical Results
- Appendix A Laboratory Analytical Report & Chain of Custody Documentation
- Appendix B Photographic Log
- Appendix C March 17, 2025, *Closure Request*



FIGURES

Legend

- Oil and Gas Utility Line
- Electric Utility Line
- Water Utility Line
- Release Extent
- Excavation/Reclamation Area



Sources: Environmental Systems Research Institute (ESRI)



Reclamation Area

XTO Energy Inc.
 PLU 043 SWD
 Incident Number: nAPP2426227740
 Unit M, Section 21, T 24S, R 31E
 Eddy County, New Mexico

FIGURE

1

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TABLES



TABLE 1 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS PLU 043 SWD XTO Energy, Inc. Eddy County, New Mexico										
Sample Designation	Date	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 Reclamation Requirement (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Backfill Soil Sample										
BF01	3/13/2026	Surface	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	15.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Laboratory Analytical Report & Chain of Custody Documentation



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Tracy Hillard
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

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JOB DESCRIPTION

PLU 043 SWD
03C1558549

JOB NUMBER

890-9654-1



Eurofins Carlsbad

Job Notes

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

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- 13
- 14

Client: Ensolum
Project/Site: PLU 043 SWD

Laboratory Job ID: 890-9654-1
SDG: 03C1558549

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: PLU 043 SWD

Job ID: 890-9654-1

Job ID: 890-9654-1

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Job Narrative 890-9654-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 3/13/2026 3:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BF 01 (890-9654-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-135410 and analytical batch 880-135402 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Diesel Range Organics

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: BF 01 (890-9654-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

Client Sample ID: BF 01

Lab Sample ID: 890-9654-1

Date Collected: 03/13/26 07:30

Matrix: Solid

Date Received: 03/13/26 15:58

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/19/26 14:53	03/20/26 12:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/19/26 14:53	03/20/26 12:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/19/26 14:53	03/20/26 12:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/19/26 14:53	03/20/26 12:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/19/26 14:53	03/20/26 12:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/19/26 14:53	03/20/26 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/19/26 14:53	03/20/26 12:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/19/26 14:53	03/20/26 12:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/20/26 12:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/19/26 21:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/16/26 15:36	03/19/26 21:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/16/26 15:36	03/19/26 21:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/16/26 15:36	03/19/26 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	03/16/26 15:36	03/19/26 21:45	1
o-Terphenyl	132	S1+	70 - 130	03/16/26 15:36	03/19/26 21:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		10.0	mg/Kg			03/17/26 03:47	1

Surrogate Summary

Client: Ensolum
 Project/Site: PLU 043 SWD

Job ID: 890-9654-1
 SDG: 03C1558549

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-67890-A-17 MB	Method Blank	109	99
890-9649-A-1-C MS	Matrix Spike	284 S1+	66 S1-
890-9649-A-1-D MSD	Matrix Spike Duplicate	98	90
890-9654-1	BF 01	104	89
LCS 880-135410/1-A	Lab Control Sample	100	88
LCSD 880-135410/2-A	Lab Control Sample Dup	103	86
MB 880-135410/5-A	Method Blank	277 S1+	127

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-69596-A-5-C MS	Matrix Spike	110	105
880-69596-A-5-D MSD	Matrix Spike Duplicate	114	107
890-9654-1	BF 01	122	132 S1+
LCS 880-135030/2-A	Lab Control Sample	115	104
MB 880-135030/1-A	Method Blank	104	114

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-67890-A-17 MB
Matrix: Solid
Analysis Batch: 135402

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg			03/19/26 22:55	1
Toluene	<0.00200	U	0.00200	mg/Kg			03/19/26 22:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			03/19/26 22:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			03/19/26 22:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			03/19/26 22:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			03/19/26 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/19/26 22:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/19/26 22:55	1

Lab Sample ID: MB 880-135410/5-A
Matrix: Solid
Analysis Batch: 135402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135410

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		03/19/26 14:53	03/20/26 05:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/19/26 14:53	03/20/26 05:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/19/26 14:53	03/20/26 05:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/19/26 14:53	03/20/26 05:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/19/26 14:53	03/20/26 05:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/19/26 14:53	03/20/26 05:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	277	S1+	70 - 130			03/19/26 14:53	03/20/26 05:09	1
1,4-Difluorobenzene (Surr)	127		70 - 130			03/19/26 14:53	03/20/26 05:09	1

Lab Sample ID: LCS 880-135410/1-A
Matrix: Solid
Analysis Batch: 135402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09672		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1067		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.1973		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		70 - 130				
1,4-Difluorobenzene (Surr)	88		70 - 130				

Lab Sample ID: LCSD 880-135410/2-A
Matrix: Solid
Analysis Batch: 135402

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	0	35

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

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

Lab Sample ID: LCSD 880-135410/2-A
Matrix: Solid
Analysis Batch: 135402

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	6	35
Ethylbenzene	0.100	0.1166		mg/Kg		117	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130	3	35
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-9649-A-1-C MS
Matrix: Solid
Analysis Batch: 135402

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 135410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.100	0.01865	F1	mg/Kg		19	70 - 130
Toluene	<0.00200	U F1 F2	0.100	0.03928	F1	mg/Kg		39	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09619		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2	0.200	0.2583		mg/Kg		129	70 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.1584	F1	mg/Kg		158	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	284	S1+	70 - 130
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130

Lab Sample ID: 890-9649-A-1-D MSD
Matrix: Solid
Analysis Batch: 135402

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 135410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.09878	F2	mg/Kg		99	70 - 130	136	35
Toluene	<0.00200	U F1 F2	0.100	0.08911	F2	mg/Kg		89	70 - 130	78	35
Ethylbenzene	<0.00200	U	0.100	0.08847		mg/Kg		88	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U F2	0.200	0.1660	F2	mg/Kg		83	70 - 130	43	35
o-Xylene	<0.00200	U F1 F2	0.100	0.09295	F2	mg/Kg		93	70 - 130	52	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-135030/1-A
Matrix: Solid
Analysis Batch: 135442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135030

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/16/26 15:36	03/19/26 14:20	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

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

Lab Sample ID: MB 880-135030/1-A
Matrix: Solid
Analysis Batch: 135442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135030

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/16/26 15:36	03/19/26 14:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/16/26 15:36	03/19/26 14:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	104		70 - 130	03/16/26 15:36	03/19/26 14:20	1
o-Terphenyl	114		70 - 130	03/16/26 15:36	03/19/26 14:20	1

Lab Sample ID: LCS 880-135030/2-A
Matrix: Solid
Analysis Batch: 135442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1018		mg/Kg		102	70 - 130

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

Lab Sample ID: 880-69596-A-5-C MS
Matrix: Solid
Analysis Batch: 135442

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 135030

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	849.5		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	999	954.9		mg/Kg		96	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	110		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-69596-A-5-D MSD
Matrix: Solid
Analysis Batch: 135442

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 135030

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	898.1		mg/Kg		90	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.1	U	999	972.8		mg/Kg		97	70 - 130	2	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	114		70 - 130
o-Terphenyl	107		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-134961/1-A
Matrix: Solid
Analysis Batch: 135032

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			03/17/26 01:26	1

Lab Sample ID: LCS 880-134961/2-A
Matrix: Solid
Analysis Batch: 135032

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-134961/3-A
Matrix: Solid
Analysis Batch: 135032

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-9649-A-5-B MS
Matrix: Solid
Analysis Batch: 135032

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.2		251	272.2		mg/Kg		104	90 - 110

Lab Sample ID: 890-9649-A-5-C MSD
Matrix: Solid
Analysis Batch: 135032

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.2		251	271.5		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

GC VOA

Analysis Batch: 135402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Total/NA	Solid	8021B	135410
880-67890-A-17 MB	Method Blank	Total/NA	Solid	8021B	
MB 880-135410/5-A	Method Blank	Total/NA	Solid	8021B	135410
LCS 880-135410/1-A	Lab Control Sample	Total/NA	Solid	8021B	135410
LCSD 880-135410/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	135410
890-9649-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	135410
890-9649-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	135410

Prep Batch: 135410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Total/NA	Solid	5035	
MB 880-135410/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-135410/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-135410/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9649-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-9649-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 135551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 135030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Total/NA	Solid	8015NM Prep	
MB 880-135030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-135030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
880-69596-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-69596-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 135442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Total/NA	Solid	8015B NM	135030
MB 880-135030/1-A	Method Blank	Total/NA	Solid	8015B NM	135030
LCS 880-135030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	135030
880-69596-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	135030
880-69596-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	135030

Analysis Batch: 135636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 134961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Soluble	Solid	DI Leach	
MB 880-134961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-134961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-134961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9649-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

HPLC/IC (Continued)

Leach Batch: 134961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9649-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 135032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9654-1	BF 01	Soluble	Solid	300.0	134961
MB 880-134961/1-A	Method Blank	Soluble	Solid	300.0	134961
LCS 880-134961/2-A	Lab Control Sample	Soluble	Solid	300.0	134961
LCSD 880-134961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	134961
890-9649-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	134961
890-9649-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	134961

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Lab Chronicle

Client: Ensolum
 Project/Site: PLU 043 SWD

Job ID: 890-9654-1
 SDG: 03C1558549

Client Sample ID: BF 01

Lab Sample ID: 890-9654-1

Date Collected: 03/13/26 07:30

Matrix: Solid

Date Received: 03/13/26 15:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	135410	03/19/26 14:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	135402	03/20/26 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			135551	03/20/26 12:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			135636	03/19/26 21:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	135030	03/16/26 15:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	135442	03/19/26 21:45	SA	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	134961	03/16/26 10:57	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	135032	03/17/26 03:47	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Ensolum
Project/Site: PLU 043 SWD

Job ID: 890-9654-1
SDG: 03C1558549

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9654-1	BF 01	Solid	03/13/26 07:30	03/13/26 15:58	SURFACE

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 968-3199



Environment Testing
 Xenco

Work Order No:

www.xenco.com Page 1 of 1

Program: UST/PST PRP Brownfields RRC Superfund
 State of Project: Reporting: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADaPT Other:

Project Manager: Tracy Hillard
 Company Name: Ensolum LLC
 Address: 3122 National Parks Hwy
 City, State ZIP: Carlsbad, NM 88220
 Phone: 575-937-3106
 Bill to: (if different) Dale Woodall
 Company Name: XTO Energy Inc.
 Address: 3104 E Greene St.
 City, State ZIP: Carlsbad, NM 88256
 Email: K.thomason@ensolum.com, thillard@ensolum.com

Project Name: PLU 043 SWD
 Project Number: 0321558519
 Project Location: 32.14719, -103.78881
 Sampler's Name: Johnny Rios
 PO #:
 Turn Around: Routine Rush Due Date: 5 day
 TAT starts the day received by the lab, if received by 4:30pm
 Samples Received Intact: Yes No Wet Ice: Yes No
 Cooler Custody Seals: Yes No Thermometer ID: W1007
 Sample Custody Seals: Yes No Correction Factor: -0.7
 Total Containers: Yes No Temperature Reading: -0.4
 Corrected Temperature: -0.7

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters			Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
							As	Co	Co				
BFO1	S	3/13/26	0730	Surf.	C	1	Chloride 4500	TRH 8015	BTEX 8021		None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	Incident: APP 242622740 CC: 1670691001	
Add Emails: tmorrissey@ensolum.com													

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	3/13/26	[Signature]	[Signature]	3/13/26
[Signature]	[Signature]		[Signature]	[Signature]	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9654-1

SDG Number: 03C1558549

Login Number: 9654

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9654-1

SDG Number: 03C1558549

Login Number: 9654

List Number: 2

Creator: Dyal, Erica

List Source: Eurofins Midland

List Creation: 03/16/26 08:43 AM

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

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APPENDIX B
Photographic Log



Photographic Log

XTO Energy, Inc
PLU 043 SWD
nAPP2426227740



317°NW (T) 32.197611°N, 103.789466°W ±6ft ▲ 3505ft



Ensolum, LLC

13 Mar 2026, 07:29:58 MDT

Photograph: 1 Date: 3/13/2026
Description: Backfilled Excavation Area
View: Northwest



309°NW (T) 32.198133°N, 103.789831°W ±6ft ▲ 3502ft



Ensolum, LLC

13 Mar 2026, 07:31:34 MDT

Photograph: 2 Date: 3/13/2026
Description: Backfilled Excavation Area
View: Northwest



339°N (T) 32.198459°N, 103.790111°W ±6ft ▲ 3504ft



Ensolum, LLC

13 Mar 2026, 07:32:54 MDT

Photograph: 3 Date: 3/13/2026
Description: Backfilled Excavation Area
View: North/Northwest



176°S (T) 32.197861°N, 103.789575°W ±19ft ▲ 3506ft



Ensolum, LLC

13 Mar 2026, 07:47:46 MDT

Photograph: 4 Date: 3/13/2026
Description: Backfilled Excavation Area
View: South



APPENDIX C

March 17, 2025 *Closure Request*



March 17, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU 043 SWD
Incident Number nAPP2426227740
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 site assessment, excavation, and soil sampling activities at the PLU 043 SWD (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water onto a Right-of-Way (ROW) and pasture area. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment and excavation activities that have occurred and requesting no further action for Incident Number nAPP2426227740.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 21, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.197664°, -103.789553°) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On September 17, 2024, a leak developed on a riser resulting in the release of approximately 1,029 barrels (bbls) of produced water onto a ROW and adjacent pasture area. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 790 bbls of released produced water were recovered. XTO reported the release to the NMOCD via Notification of Release (NOR) and an Initial C-141 Application (C-141) on September 18, 2024. The release was assigned Incident Number nAPP2426772240.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to 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. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On December 30, 2020, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-4499, located approximately 0.4 north of the Site was drilled utilizing hollow stem auger drilling method. The boring

was drilled to a total depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at that location is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 24,551 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

SITE ASSESSMENT AND LAND ACCESS ACTIVITIES

On September 18, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. No samples were collected during this Site visit. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

Since the release occurred off pad, XTO submitted a Form 3160-5 (Sundry Form) to the BLM to request access to the pasture soils on November 18, 2024. XTO received an approved sundry, granting access to complete remediation, on November 25, 2024. The approved sundry is presented in Appendix C.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between February 4 and February 14, 2025, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed using a heavy equipment. To direct excavation activities, Ensolum personnel field screened the soil samples for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples

XTO Energy, Inc
Closure Request
PLU 043 SWD



representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point 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. Confirmation soil samples FS01 through FS50 were collected from the floor of the excavation at depths of 4 feet bgs. Confirmation sidewall soil samples SW01 through SW18 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The excavation extent and confirmation soil sample locations are presented 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 (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

The final excavation extent measured approximately 10,000 square feet. A total of approximately 1,480 cubic yards of impacted soil was removed during the excavation activities. The impacted soil will be transported and properly disposed of at the OWL Landfill in Jal, New Mexico. The excavation is in the process of being backfilled with material purchased locally and recontoured to match pre-existing site conditions. The excavation area will be reseeded with a BLM approved seed mix in the next recommended planting season.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation floor soil samples FS01 through FS50 and sidewall soil samples SW01 through SW18, collected at depths ranging from ground surface to 4 feet bgs indicated that all COC concentrations were compliant with the Closure Criteria. Additionally, the confirmation sidewall soil samples collected from ground surface to 4 feet bgs indicated all COC concentrations were compliant with the reclamation requirement and confirmed the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 17, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. In addition, all waste-containing soil was removed from the top 4 feet of the release area. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. All disturbed areas will be reseeded with a BLM approved seed mix in the next recommended planting season and a reclamation report will be submitted.

Excavation of waste-containing soil has mitigated potential impacts at this 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. As such, XTO respectfully requests closure for Incident Number nAPP2426227740.

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

XTO Energy, Inc
Closure Request
PLU 043 SWD



Sincerely,
Ensolum, LLC

Handwritten signature of Tracy Hillard in black ink.

Tracy Hillard
Project Engineer

Handwritten signature of Tacoma Morrissey in black ink.

Tacoma Morrissey
Associate Principal

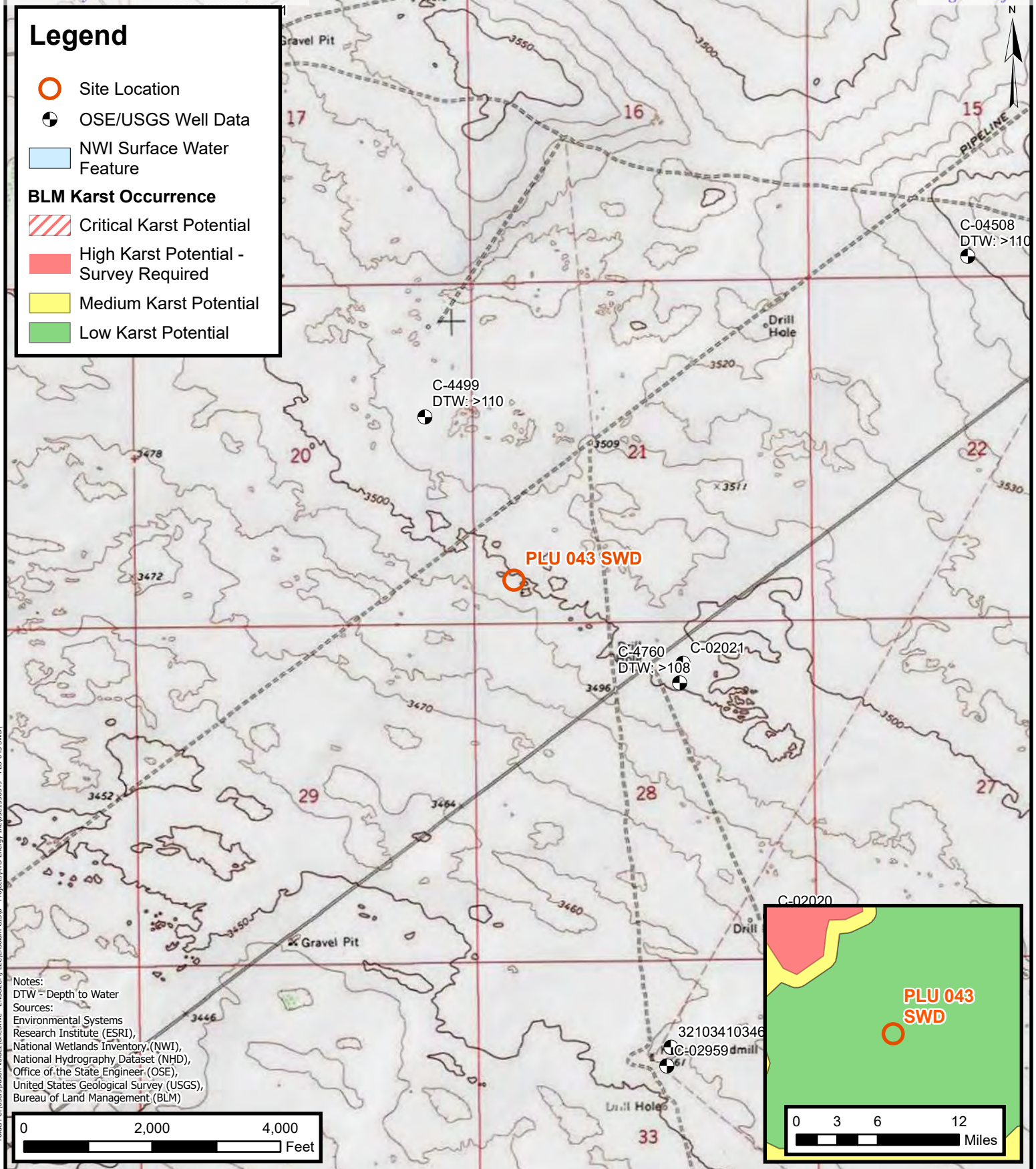
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map
Figure 2 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Photographic Log
Appendix C Land Access References
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Folder: C:\Users\Justin.Velazquez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\031559599 - PLU 043 SWD

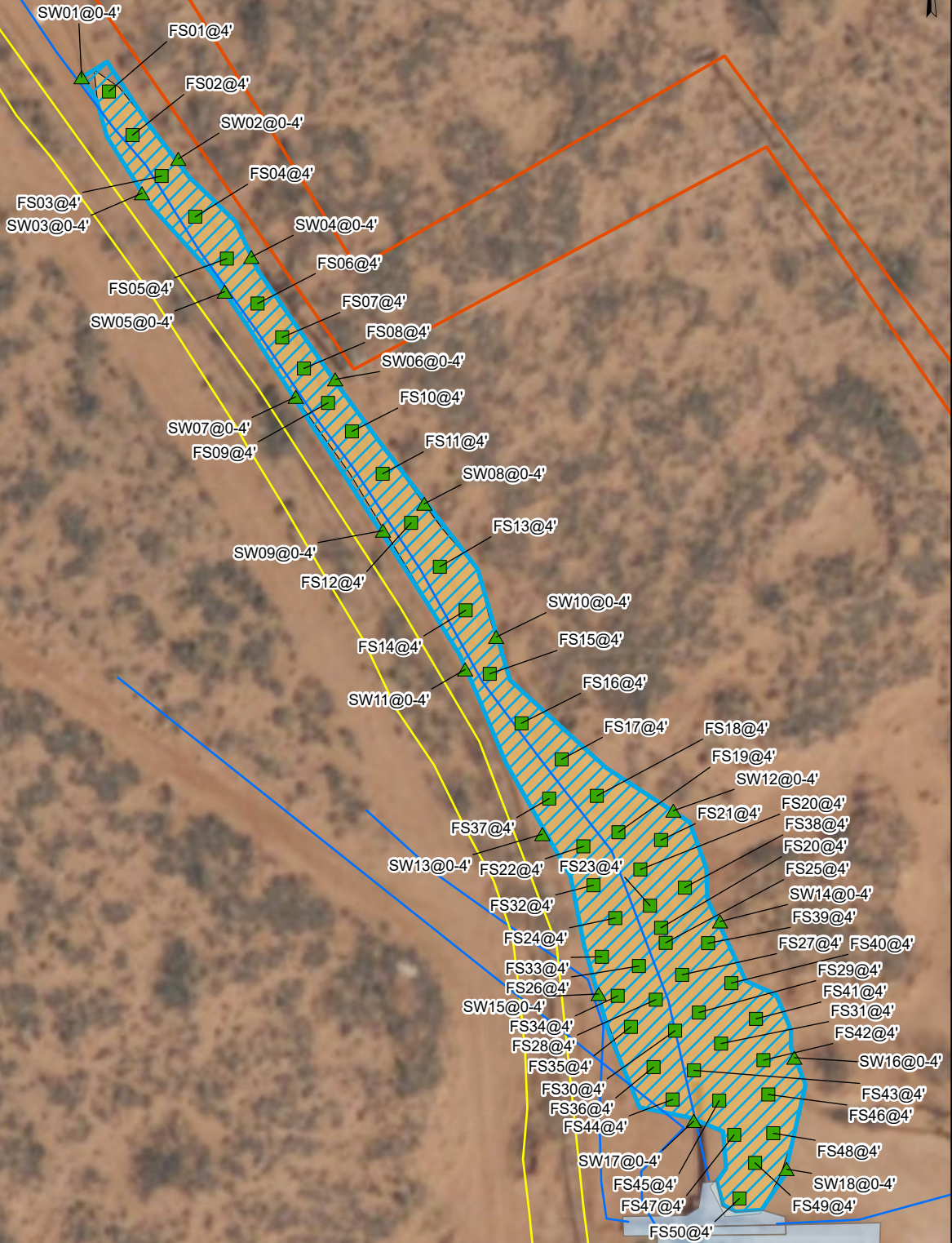
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map
XTO Energy Inc.
PLU 043 SWD
Incident Number: nAPP2426227740
Unit M, Section 21, T 24S, R 31E
Eddy County, New Mexico

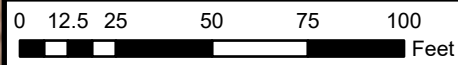
FIGURE
1

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Release Extent
- Production Equipment
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground/Surface.



Sources: Environmental Systems Research Institute (ESRI)

Excavation Soil Sample Locations

XTO Energy Inc.
 PLU 043 SWD
 Incident Number: nAPP2426227740
 Unit M, Section 21, T 24S, R 31E
 Eddy County, New Mexico

FIGURE

2





TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 043 SWD
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)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
FS01	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
FS02	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760
FS03	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,620
FS04	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,030
FS05	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,190
FS06	02/11/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,320
FS07	02/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,060
FS08	02/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,320
FS09	02/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,060
FS10	02/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,280
FS11	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
FS12	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,600
FS13	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,260
FS14	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
FS15	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
FS16	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,200
FS17	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,520
FS18	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960
FS19	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800
FS20	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,460
FS21	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
FS22	02/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,930
FS23	02/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,480
FS24	02/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,330
FS25	02/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,330
FS26	02/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
FS27	02/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
FS28	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
FS29	02/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,460
FS30	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,900
FS31	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 043 SWD
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS32	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,700
FS33	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,400
FS34	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,400
FS35	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,100
FS36	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,760
FS37	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,040
FS38	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,800
FS39	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,260
FS40	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,280
FS41	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
FS42	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,500
FS43	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,800
FS44	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,200
FS45	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800
FS46	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,460
FS47	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
FS48	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
FS49	02/14/2025	4	<0.050	<0.300	<10.0	58.1	<10.0	58.1	58.1	4,000
FS50	02/14/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,280
SW01	02/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW02	02/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW03	02/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW04	02/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW05	02/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW06	02/10/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW07	02/10/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW08	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW09	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW10	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW11	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW12	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW13	02/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 043 SWD
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW14	02/13/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SW15	02/13/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW16	02/13/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW17	02/13/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW18	02/13/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

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



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4499			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32°	MINUTES 12'	SECONDS 15.89"	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE	-103°	47'	36.29"			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE Sec. 20 T24S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.			
	DRILLING STARTED 12/30/2020	DRILLING ENDED 12/30/2020	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±8.5	Boring- HSA	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	C-4499	POD NO.	1	TRN NO.	182532
LOCATION	24S.31E.20.243		WELL TAG ID NO.	—	PAGE 1 OF 2

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	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0	6	6	SAND, well graded, fine-to-large grain particles red-brown, dry	✗ ✓ N		
	6	8	2	SAND, poorly graded, fine grained little clay mod. plasticity, red-brown, moist	Y ✓ N		
	8	11	3	CALICHE, mod. consolidated, some sand, medium /fine grain, white-tan, dry	Y ✓ N		
	11	46	35	CALICHE, mod. consolidated, some sand, medium to fine grain, white-tan, dry.	Y ✓ N		
	46	74	28	SAND, well-graded, medium grain, caliche gravel (1-4mm), light brown, dry.	Y ✓ N		
	74	110	36	SAND, well-graded, fine/large grain, few clay, cohesive, red-brown, dry	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
	<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION:	Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	Shane Eldridge					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	 Jackie D. Atkins			01/15/2021			
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO. C-4499	POD NO. 1	TRN NO. 482532	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2

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2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-forsign

Final Audit Report

2021-01-15

Created:	2021-01-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAGs296c366oCifirLCiy9WDKJlrUnq-9u

"2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-01-15 - 8:45:00 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-01-15 - 8:45:35 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-01-15 - 9:05:13 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-01-15 - 9:13:18 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2021-01-15 - 9:13:18 PM GMT

OSE DJJ JAN 27 2021 PM3:34





APPENDIX B

Photographic Log



Photographic Log

XTO Energy Inc.

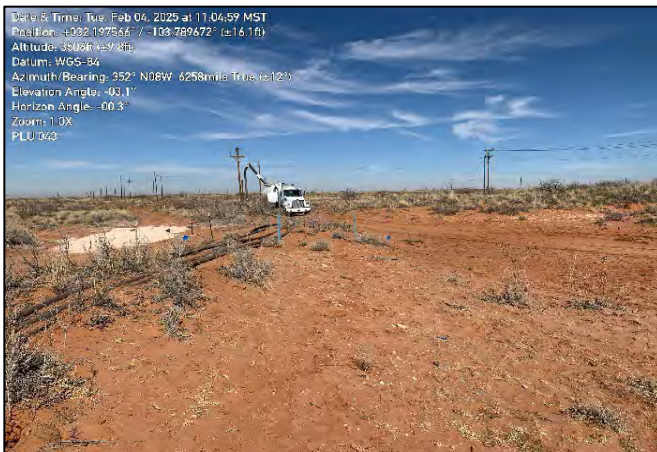
PLU 043 SWD

nAPP2426227740



Photograph: 1 Date: 9/18/2024
Description: Soil staining in release footprint
View: Northeast

Photograph: 2 Date: 9/18/2024
Description: Soil staining in release footprint
View: Northwest



Photograph: 3 Date: 2/4/2025
Description: Excavation activities
View: Northwest

Photograph: 4 Date: 2/7/2025
Description: Excavation activities
View: North



Photographic Log

XTO Energy Inc.

PLU 043 SWD

nAPP2426227740



Photograph: 5 Date: 2/10/2025
 Description: Excavation activities
 View: North

Photograph: 6 Date: 2/13/2025
 Description: Excavation activities
 View: Northwest



Photograph: 7 Date: 2/14/2025
 Description: Final excavation extent
 View: North

Photograph: 8 Date: 2/14/2025
 Description: Final excavation extent
 View: Southeast



Appendix C

Land Access References

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: POKER LAKE SWD	Well Location: T24S / R31E / SEC 21 / SWSW / 32.1973501 / -103.7890851	County or Parish/State: EDDY / NM
Well Number: 43	Type of Well: INJECTION - ENHANCED RECOVERY	Allottee or Tribe Name:
Lease Number: NMNM0506A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001521700	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2823060

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 11/18/2024

Time Sundry Submitted: 01:49

Date proposed operation will begin: 11/25/2024

Procedure Description: XTO Permian Operating LLC., (XTO), respectfully requests access to an off-pad area located northwest of Poker Lake Unit 043 well pad location in order to complete remediation activities related to a release (Incident Number nAPP2426227740) which occurred on September 17, 2024. The release occurred on the PLU 043 SWD facility pad at GPS 32.197528, -103.789510 and flowed northwest along a 2-track road and into the pasture area. Excavation of impacted soil is needed utilizing heavy equipment (backhoe, trackhoe, loader, and hydrovacuum truck). After successful completion of remediation efforts, the disturbed areas will be backfilled with top soil purchased locally and re-contoured to match pre-existing site conditions and re-seeded with the recommended BLM seed mixture. Please see the attached site map.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

XTO_PLU_043_SWD_Site_Map_20241118134734.pdf

Well Name: POKER LAKE SWD

Well Location: T24S / R31E / SEC 21 / SWSW / 32.1973501 / -103.7890851

County or Parish/State: EDDY / NM

Well Number: 43

Type of Well: INJECTION - ENHANCED RECOVERY

Allottee or Tribe Name:

Lease Number: NMNM0506A

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001521700

Operator: XTO PERMIAN OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHERRY MORROW

Signed on: NOV 18, 2024 01:46 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND

State: TX

Phone: (432) 218-3671

Email address: SHERRY.MORROW@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CRISHA A MORGAN

BLM POC Title: Environmental Protection Specialist

BLM POC Phone: 5752345987

BLM POC Email Address: camorgan@blm.gov

Disposition: Accepted

Disposition Date: 12/06/2024

Signature: CRISHA A. MORGAN

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
	Title
Signature	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well



0. SHL: SWSW / 660 FSL / 660 FWL / TWSP: 24S / RANGE: 31E / SECTION: 21 / LAT: 32.1973501 / LONG: -103.7890851 (TVD: 0 feet, MD: 0 feet)

BHL: SWSW / 660 FSL / 660 FWL / TWSP: 24S / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

Figure 1: PLU 043 SWD

BLM Requested Area of Disturbance

Legend

-  Release Extent
-  Requested Disturbance Area



Google Earth

400 ft





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 17, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 043 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/13/25 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 11 4' (H250880-01)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 12 4' (H250880-02)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 13 4' (H250880-03)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 14 4' (H250880-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2025	ND	1.91	95.3	2.00	0.878		
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347		
Total BTEX	<0.300	0.300	02/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6930	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74		
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 15 4' (H250880-05)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 16 4' (H250880-06)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 17 4' (H250880-07)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 18 4' (H250880-08)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 19 4' (H250880-09)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 08 0-4' (H250880-10)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 10 0-4' (H250880-11)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 09 0-4' (H250880-12)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 11 0-4' (H250880-13)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 12 0-4' (H250880-14)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 13 0-4' (H250880-15)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-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	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 20 4' (H250880-16)

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	02/14/2025	ND	1.91	95.3	2.00	0.878		
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347		
Total BTEX	<0.300	0.300	02/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74		
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND						

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 21 4' (H250880-17)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/12/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 22 4' (H250880-18)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4930	16.0	02/14/2025	ND	480	120	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	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 01 0-4' (H250880-19)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 02 0-4' (H250880-20)

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	02/14/2025	ND	1.91	95.3	2.00	0.878	
Toluene*	<0.050	0.050	02/14/2025	ND	2.04	102	2.00	0.835	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	2.02	101	2.00	0.486	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.99	99.9	6.00	0.347	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	193	96.6	200	4.74	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	182	90.9	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 03 0-4' (H250880-21)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 04 0-4' (H250880-22)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 05 0-4' (H250880-23)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 01 4' (H250880-24)

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	02/14/2025	ND	1.86	93.1	2.00	0.779		
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00		
Total BTEX	<0.300	0.300	02/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	02/14/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45		
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57		
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 02 4' (H250880-25)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 03 4' (H250880-26)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 04 4' (H250880-27)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2030	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 05 4' (H250880-28)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2190	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/11/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 06 4' (H250880-29)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/10/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 06 0-4' (H250880-30)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/10/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: SW 07 0-4' (H250880-31)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/10/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 07 4' (H250880-32)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/10/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 08 4' (H250880-33)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/10/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 09 4' (H250880-34)

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	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	<0.300	0.300	02/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	02/14/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45	
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2025	Sampling Date:	02/10/2025
Reported:	02/17/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719-103.78881		

Sample ID: FS 10 4' (H250880-35)

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	02/14/2025	ND	1.86	93.1	2.00	0.779		
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31		
Ethylbenzene*	<0.050	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58		
Total Xylenes*	<0.150	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00		
Total BTEX	<0.300	0.300	02/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	02/14/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2025	ND	197	98.3	200	2.45		
DRO >C10-C28*	<10.0	10.0	02/14/2025	ND	191	95.6	200	3.57		
EXT DRO >C28-C36	<10.0	10.0	02/14/2025	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: Ensolium, LLC
 Project Manager: *Tracy Hillard*
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575 937 3906 Fax #:
 Project #: 03C1558549 Project Owner: XTO
 Project Name: PLU 043 SWD
 Project Location: S2.19 719, -103.78861
 Sampler Name: Joshua Boxley

BILL TO
 P.O. #:
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Phone #:
 Fax #:
SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>HS0880</i>	FS11	4	C	1			X								
	FS12	1													
	FS13	1													
	FS14	1													
	FS15	1													
	FS16	1													
	FS17	1													
	FS18	1													
	FS19	1													
	SW06	0-2	C	1											

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Relinquished By: *[Signature]*
 Date: 2-13-25
 Time: 1425
 Received By: *[Signature]*
 Date: 2-13-25
 Time: 1425
 Received By: *[Signature]*

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

Observed Temp. °C: 0.1
 Corrected Temp. °C: 0.4

Sample Condition: Intact Cool Yes No

Checked By: *[Signature]*

Turnaround Time: *14hr*
 Thermometer ID: #140
 Correction Factor: #0.3

Bacteria (only) Sample Condition: Intact Cool Yes No

REMARKS: APP2426227740
 Incident: 1670691001
 Cost Center: 1670691001

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *hillard@ensolium.com, TMorrissey@ensolium.com, KThomason@ensolium.com*

FORM-006 R.3.2 10/07/21



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208

ANALYSIS REQUEST

BILL TO

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: <i>Tracy Hillard</i>		Company: XTO Energy Inc	
Address: 3122 National Parks Hwy		Attn: Colton Brown	
City: Carlsbad	State: NM Zip: 88220	Address: 3104 E Green St	
Phone #: 575 937 3906	Fax #:	City: Carlsbad	
Project #: 03C1558549	Project Owner: XTO	State: NM Zip: 88220	
Project Name: PLU 043 SWD		Phone #:	
Project Location: 52.19719, -103.78861		Fax #:	
Sampler Name: Joshua Boxley			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>#250880</i>	SW10	0-4	C	1			X								
	SW09	↓													
	SW11	↓													
	SW12	↓													
	SW13	0-4													
	FS20	4													
	FS24	4													
	FS22	4													
	SW01	0-4													
	SW02	0-4													

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Relinquished By: <i>[Signature]</i>	Date: <i>2-13-25</i>	Received By: <i>[Signature]</i>	Date: <i>2-13-25</i>
Time: <i>1425</i>		Time: <i>1425</i>	
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>AB</i>
		Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

FORM-006 R 3.2 1007/21
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: *Tracy Hillard*
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575 937 3906 Fax #: _____
 Project #: 03C1558519 Project Owner: XTO
 Project Name: PLU 043 SWD
 Project Location: 32.19719, -103.78861
 Sampler Name: Joshua Boxley

P.O. #: _____
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad State: NM Zip: 88220
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<i>H250880</i>	<i>SN03</i>	<i>0-4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>21.25</i>	<i>1020</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>21</i>	<i>SN04</i>	<i>0-4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>1025</i>	<i>1030</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>22</i>	<i>SN05</i>	<i>0-4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0950</i>	<i>0955</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>23</i>	<i>FS01</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0925</i>	<i>0920</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>24</i>	<i>FS02</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0915</i>	<i>0910</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>25</i>	<i>FS03</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0915</i>	<i>0910</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>26</i>	<i>FS04</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0915</i>	<i>0910</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>27</i>	<i>FS05</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0915</i>	<i>0910</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>28</i>	<i>FS06</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0915</i>	<i>0910</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>29</i>	<i>FS06</i>	<i>4</i>	<i>C</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>0915</i>	<i>0910</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: _____ Date: *4-13-25* Received By: *Joshua Boxley*
 Time: *1425* Received By: *Joshua Boxley*
 Relinquished By: _____ Date: *4/25* Received By: _____
 Time: _____

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: *0.1* Sample Condition: Intact Cool Intact Yes No No
 Corrected Temp. °C: *0.4* CHECKED BY: *JS* (Initials)

Turnaround Time: *Standard* *Rush*
 Thermometer ID: *46W* *#148*
 Correction Factor: *0.25*

Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C Yes No Yes No

REMARKS: *WAPP2426227140*
 Incident: *1670691001*
 Cost Center: _____

Verbal Results: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: *@ensolum.com, T Morrissey@ensolum.com, KThomason@ensolum.com*

FORM-006 R.3.2 10/07/21

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



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

February 19, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 043 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/17/25 12:30.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: SW 14 0-4 (H250932-01)

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	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: SW 15 0-4 (H250932-02)

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	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	182	90.9	200	4.60	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	179	89.4	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: SW 16 0-4 (H250932-03)

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	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: SW 17 0-4 (H250932-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: SW 18 0-4 (H250932-05)

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	02/18/2025	ND	2.05	102	2.00	4.78	
Toluene*	<0.050	0.050	02/18/2025	ND	2.13	107	2.00	4.55	
Ethylbenzene*	<0.050	0.050	02/18/2025	ND	2.10	105	2.00	4.72	
Total Xylenes*	<0.150	0.150	02/18/2025	ND	6.17	103	6.00	4.59	
Total BTEX	<0.300	0.300	02/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 23 4 (H250932-06)

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	02/17/2025	ND	1.91	95.4	2.00	3.79	
Toluene*	<0.050	0.050	02/17/2025	ND	2.00	100	2.00	5.08	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.02	101	2.00	5.30	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.79	
Total BTEX	<0.300	0.300	02/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 24 4 (H250932-07)

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	02/17/2025	ND	1.91	95.4	2.00	3.79	
Toluene*	<0.050	0.050	02/17/2025	ND	2.00	100	2.00	5.08	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.02	101	2.00	5.30	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.79	
Total BTEX	<0.300	0.300	02/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 25 4 (H250932-08)

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	02/17/2025	ND	1.91	95.4	2.00	3.79		
Toluene*	<0.050	0.050	02/17/2025	ND	2.00	100	2.00	5.08		
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.02	101	2.00	5.30		
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.79		
Total BTEX	<0.300	0.300	02/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5330	16.0	02/18/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 26 4 (H250932-09)

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	02/17/2025	ND	1.91	95.4	2.00	3.79		
Toluene*	<0.050	0.050	02/17/2025	ND	2.00	100	2.00	5.08		
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.02	101	2.00	5.30		
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.79		
Total BTEX	<0.300	0.300	02/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	02/18/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 27 4 (H250932-10)

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	02/17/2025	ND	1.91	95.4	2.00	3.79	
Toluene*	<0.050	0.050	02/17/2025	ND	2.00	100	2.00	5.08	
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.02	101	2.00	5.30	
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.79	
Total BTEX	<0.300	0.300	02/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	02/18/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56	
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2025	Sampling Date:	02/13/2025
Reported:	02/19/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 29 4 (H250932-11)

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	02/17/2025	ND	1.91	95.4	2.00	3.79		
Toluene*	<0.050	0.050	02/17/2025	ND	2.00	100	2.00	5.08		
Ethylbenzene*	<0.050	0.050	02/17/2025	ND	2.02	101	2.00	5.30		
Total Xylenes*	<0.150	0.150	02/17/2025	ND	6.17	103	6.00	4.79		
Total BTEX	<0.300	0.300	02/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	02/18/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/17/2025	ND	193	96.3	200	1.56		
DRO >C10-C28*	<10.0	10.0	02/17/2025	ND	193	96.5	200	1.77		
EXT DRO >C28-C36	<10.0	10.0	02/17/2025	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Trey Hillard</i>		P.O. #:			
Address: 3122 National Parks Hwy		Company: XTO Energy Inc			
City: Carlsbad		Attn: Colton Brown			
State: NM Zip: 88220		Address: 3104 E Green St			
Phone #: 575 937 3906		City: Carlsbad			
Fax #: Project #:		State: NM Zip: 88220			
Project Name: <i>PLU 043 SWD</i>		Project Owner: XTO			
Project Location: <i>S2.19 119, -103.78861</i>		Phone #:			
Sampler Name: Joshua Boxley		Fax #:			

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>HE240932</i>															
1	SW14	0-4	C	1											
2	SW15		C	1											
3	SW16		C	1											
4	SW17		C	1											
5	SW18	0-4	C	1											
6	FS23		C	1											
7	FS24		C	1											
8	FS25		C	1											
9	FS26		C	1											
10	FS27		C	1											

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Relinquished By: *[Signature]* Date: *8-17-85*
 Received By: *[Signature]* Date: *1830*

Delivered By: (Circle One) Observed Temp. °C *8.1* Sample Condition: Intact Cool Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C *8.4* CHECKED BY: *[Signature]* (Initials) *AB*

Remarks: Incident: *KAPP2426227740* Cost Center: *1670691001*

Turnaround Time: *40hr* Standard Rush Bacteria (only) Cool Intact Yes No Corrected Temp. °C

FORM-006 R 3.2 10/07/21
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: <i>Tracy Hillard</i>		Company: XTO Energy Inc			
Address: 3122 National Parks Hwy		Attn: Colton Brown			
City: Carlsbad		Address: 3104 E Green St			
State: NM Zip: 88220		City: Carlsbad			
Phone #: 575 937 3906		State: NM Zip: 88220			
Fax #: Project #: 0301556549		Project Owner: XTO			
Project Name: <i>PLU 043 SMD</i>		Project Location: <i>S2.19719, -103.78861</i>			
Sampler Name: Joshua Boxley		Phone #:			
FOR LAB USE ONLY		FAX #:			
Lab I.D. <i>HS0932</i>	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX
<i>11</i>	<i>F529</i>	<i>4</i>	<i>C</i>	<i>1</i>	GROUNDWATER
					WASTEWATER
					SOIL
					OIL
					SLUDGE
					OTHER :
					ACID/BASE:
					ICE / COOL
					OTHER :
					DATE
					TIME
					Chlorides
					TPH
					BTEX
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>					
Relinquished By: <i>[Signature]</i>	Date: <i>2-17-25</i>	Received By: <i>[Signature]</i>	Date: <i>2-17-25</i>	Time: <i>1830</i>	Time: <i>1855</i>
Delivered By: (Circle One)	Observed Temp. °C <i>2.1</i>	Sample Condition	Checked By: <i>[Signature]</i>	Thermometer ID: <i>#140</i>	Correction Factor: <i>10.3c</i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <i>2.1</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No
					Observed Temp. °C
					Corrected Temp. °C
<p>REMARKS: <i>KAPP2426227740</i> Incident: <i>1670691001</i> Turnaround Time: <i>Standard</i> All Results are emailed. Please provide Email address: <i>THillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com</i></p>					
<p>FORM-006 R.3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to <i>celey.keene@cardinallabsnm.com</i></p>					



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

February 24, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 043 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 14:02.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 28 4 (H251013-01)

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	02/21/2025	ND	2.03	101	2.00	2.56	
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 30 4 (H251013-02)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5900	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 31 4 (H251013-03)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 32 4 (H251013-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4700	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 33 4 (H251013-05)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 34 4 (H251013-06)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7400	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 35 4 (H251013-07)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6100	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 36 4 (H251013-08)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 37 4 (H251013-09)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 38 4 (H251013-10)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 39 4 (H251013-11)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	02/21/2025	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	02/21/2025	ND	206	103	200	0.394		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	194	97.1	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 40 4 (H251013-12)

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	02/21/2025	ND	2.03	101	2.00	2.56		
Toluene*	<0.050	0.050	02/21/2025	ND	2.09	105	2.00	1.93		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.02	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	5.96	99.4	6.00	2.54		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	02/21/2025	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	02/21/2025	ND	211	106	200	1.43		
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	203	102	200	3.91		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 41 4 (H251013-13)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	02/21/2025	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	02/21/2025	ND	211	106	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	203	102	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 42 4 (H251013-14)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7500	16.0	02/21/2025	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	02/21/2025	ND	211	106	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	203	102	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 43 4 (H251013-15)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	02/21/2025	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	02/21/2025	ND	211	106	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	203	102	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 44 4 (H251013-16)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	02/21/2025	ND	432	108	400	0.00	QM-07

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	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 45 4 (H251013-17)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	02/21/2025	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	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 46 4 (H251013-18)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	02/21/2025	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	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 47 4 (H251013-19)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	02/21/2025	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	02/21/2025	ND	218	109	200	0.994	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	215	108	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 48 4 (H251013-20)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/21/2025	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	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 49 4 (H251013-21)

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	02/21/2025	ND	2.05	102	2.00	1.39		
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446		
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407		
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538		
Total BTEX	<0.300	0.300	02/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	02/21/2025	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	02/21/2025	ND	198	98.8	200	5.95		
DRO >C10-C28*	58.1	10.0	02/21/2025	ND	193	96.4	200	7.73		
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND						

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2025	Sampling Date:	02/14/2025
Reported:	02/24/2025	Sampling Type:	Soil
Project Name:	PLU 043 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C1558549	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19719, -103.78881		

Sample ID: FS 50 4 (H251013-22)

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	02/21/2025	ND	2.05	102	2.00	1.39	
Toluene*	<0.050	0.050	02/21/2025	ND	2.21	111	2.00	0.446	
Ethylbenzene*	<0.050	0.050	02/21/2025	ND	2.26	113	2.00	0.0407	
Total Xylenes*	<0.150	0.150	02/21/2025	ND	6.80	113	6.00	0.538	
Total BTEX	<0.300	0.300	02/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	02/21/2025	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	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 575 937 3906 Fax #:
Project #: 03C1554 549 Project Owner: XTO
Project Name: PLV 043 SWD
Project Location: 32.19719, -103.74681
Sampler Name: Joshua Boxley

BILL TO

ANALYSIS REQUEST

P.O. #:
Company: XTO Energy Inc
Attn: Colton Brown
Address: 3104 E Green St
City: Carlsbad State: NM Zip: 88220
Phone #:
Fax #:
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HE51013	F5228	4	C	1								2:14:25	1110	X	X	X
	F5330												1115			
	F5331												09:20			
	F5332												09:40			
	F5333												09:45			
	F5334												09:50			
	F5335												09:35			
	F5336												09:36			
	F5337												09:43			
	F5338	4	C	1								2:14:25	09:46	X	X	X

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Relinquished By: [Signature] Date: 3-20-25
Received By: [Signature] Date: 1403

Delivered By: (Circle One) Observed Temp. °C: 18.2 Corrected Temp. °C: 15.1
Sampler - UPS - Bus - Other: Sample Condition: Cool Intact Yes [X] No []
CHECKED BY: (Initials) [Signature]

Verbal Results: Yes No Add'l Phone #:
All Results are emailed. Please provide Email address:
T Hillard @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
REMARKS: APP 2426227140
Incident: W48W Rust
Cost Center: 1670691001

Turnaround Time: 48W Bacteria (only) Sample Condition: Cool Intact Yes [X] No []
Thermometer ID: #148 Rust Observed Temp. °C: 18.2 Corrected Temp. °C: 15.1
Correction Factor: 0.3c

FORM-006 R.3.2 10/07/21
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2083

BILL TO

ANALYSIS REQUEST

Project Manager: Tracy Hillard
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575 937 3906 Fax #:
 Project #: 03C1558 549 Project Owner: XTO
 Project Name: PLV 043 SWD
 Project Location: 32.19719, -103.78681
 Sampler Name: Joshua Boxley

P.O. #:
 Company: XTO Energy Inc
 Attn: Colton Brown
 Address: 3104 E Green St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:
 Preservation: ACID/BASE: ICE / COOL OTHER:
 Sampling:
 Date: 2/14/25 Time: 0949

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HPS1013	FS 39	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	0949	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS40	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	0954	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS41	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS42	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS43	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS44	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS45	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1045	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS46	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS47	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	FS48	4	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2/14/25	1025	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: [Signature]
 Date: 2/20/25
 Time: 1:52
 Received By: [Signature]
 Date: [Signature]
 Time: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Observed Temp. °C: 18.2
 Corrected Temp. °C: 15.5
 Sample Condition: Intact Cool Yes No
 CHECKED BY: [Signature] (Initials)
 Turaround Time: 1670691001
 Incident: 1670691001
 Cost Center: 1670691001
 Remarks: 4GBW Standard RUSH
 Thermometer ID: #146
 Correction Factor: +0.3c
 Bacteria (only) Sample Condition Cool Intact Yes No
 Corrected Temp. °C:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Hillard @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

383

Company Name: Ensolium, LLC

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 575 937 3906

Project #: 03C1558549

Project Name: PLV 043 SWD

Project Location: 32.19719, -103.76681

Sampler Name: Joshua Boxley

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM

Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HES1013	ES49	4	C1	1								2/14/25	1025	X	X	X
	ES50	4	C1	1								2/14/25	1030	X	X	X

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Relinquished By: [Signature]

Received By: [Signature]

Date: 2-20-25

Date: 1/19/24

Received By: [Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 1.32

Sample Condition Cool Intact

CHECKED BY: [Signature]

Turnaround Time: 146w

Standard RUSH

Bacteria (only) Cool Intact

Sample Condition Observed Temp. °C

FORM-006 R.3.2 10/07/21

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

REMARKS: APP2426227740
Incident: 1670691001
Cost Center: 1670691001
All Results are emailed. Please provide Email address: THillard@ensolium.com, TMorrissey@ensolium.com, KThomason@ensolium.com
Add'l Phone #: [Blank]
Verbal Result: Yes No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 570233

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2426227740
Incident Name	NAPP2426227740 PLU 043 SWD @ M-21-24S-31E
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 043 SWD
Date Release Discovered	09/17/2024
Surface Owner	Federal

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

Nature and Volume of Release	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 1,029 BBL Recovered: 790 BBL Lost: 239 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)	Leak developed on a riser

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	<i>Not answered.</i>

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.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 04/01/2026
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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Oil Conservation Division
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QUESTIONS, Page 3

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	12800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	58.1
GRO+DRO (EPA SW-846 Method 8015M)	58.1
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	09/18/2024
On what date will (or did) the final sampling or liner inspection occur	02/14/2025
On what date will (or was) the remediation complete(d)	02/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	10000
What is the estimated volume (in cubic yards) that will be reclaimed	1480
What is the estimated surface area (in square feet) that will be remediated	10000
What is the estimated volume (in cubic yards) that will be remediated	1480

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. 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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QUESTIONS, Page 4

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fJEG1635837366 OWL LANDFILL JAL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 04/01/2026
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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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QUESTIONS, Page 5

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	431463
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/18/2025
What was the (estimated) number of samples that were to be gathered	60
What was the sampling surface area in square feet	12000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10000
What was the total volume (cubic yards) remediated	1480
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	10000
What was the total volume (in cubic yards) reclaimed	1480

Summarize any additional remediation activities not included by answers (above)	"Site assessment and excavation activities were conducted at the Site to address the September 17, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. In addition, all waste-containing soil was removed from the top 4 feet of the release area. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. All disturbed areas will be reseeded with a BLM approved seed mix in the next recommended planting season and a reclamation report will be submitted. Excavation of waste-containing soil has mitigated potential impacts at this 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. As such, XTO respectfully requests closure for Incident Number nAPP2426227740."
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The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 04/01/2026
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QUESTIONS, Page 7

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	10000
What was the total volume of replacement material (in cubic yards) for this site	1480
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	05/15/2026
Summarize any additional reclamation activities not included by answers (above)	Following backfill activities, the disturbed area was contoured to match the surrounding topography and the surface was prepared for seeding. Upon confirmation that the excavation was backfilled with non-waste containing material, the disturbed pasture area will be seeded with a certified weed-free seed mix. The BLM Seed Mix #2 will be used to seed the Site. The seed mix will be applied via drill seeding. The Site will be monitored for vegetation growth to ensure that reclamation activities were successful.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 04/01/2026

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QUESTIONS, Page 8

Action 570233

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 570233

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 570233
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation Report for Incident #nAPP2426227740 PLU 043 SWD, thank you. This Reclamation Report is approved.	4/6/2026