



November 20, 2024

New Mexico Oil Conservation Division

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

**Re: Sampling Plan
PLU South Frac Pond
Incident Number nAPP2405971517
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Sampling Plan (Work Plan)* to document the assessment, delineation and soil sampling activities completed to date and propose a work plan to complete confirmation soil sampling in the release extent at the PLU South Pond (Site). The purpose of the remediation activities was to determine the presence or absence of impacted soil resulting from a produced water release at the Site. The following *Work Plan* proposes to complete confirmation soil sampling to ensure no impacted exists as a result of the release.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 26, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.10618°, -103.85288°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 14, 2024, a water transfer polyline failure resulted in the release of 35 barrels (bbls) of produced water onto a 2-track lease road, Right-of-Way (ROW), and adjacent pasture. No fluids were recovered. XTO submitted a Notification of Release (NOR) and an Initial C-141 Application (C-141) on February 28, 2024. The release was assigned Incident Number nAPP2405971517.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below. 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 data from a soil boring drilled to investigate regional groundwater depth. In February 2021, a soil boring permitted by New Mexico Office of the State Engineer (C-4498) was completed approximately 0.5 miles southeast of the Site utilizing hollow stem auger method. Soil boring C-4498 was drilled to a depth of 109 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing

XTO Energy, Inc.
Remediation Work Plan
PLU South Frac Pond

groundwater, it was confirmed that groundwater beneath the Site is greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix B.

The closest continuously flowing or significant watercourse is an intermittent dry wash, that runs adjacent to the east portion 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).

Due to the proximity of the nearest significant watercourse to the Site, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On February 14, 2024, XTO personnel mapped the release extent utilizing a Global Positioning System (GPS) unit which is depicted on Figure 2.

On August 16, 2024, XTO submitted the following extension request, for several incidents, to the NMOCD:

XTO is requesting an extension for a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the attached locations/incident numbers listed in this message. We understand that the releases all occurred between February and March of this year and attendant documentation is overdue. Kindly be aware that these occurred during a high turnover period of personnel in our department, transitioning staff, and a large company-wide data migration that collectively disturbed our incident tracking efforts for remediation. In our efforts to correct the issue, XTO is proactively assigning each of these incidents to be successfully addressed by contractors for closure in accordance with 19.15.29.12 NMAC.

The extension request was approved for one Incident Number on the list. All others, including Incident Number nAPP2405971517 were denied on August 19, 2024, however no immediate response was requested and no submittal deadline was assigned.

On September 3, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141, internal reports and visual observations. Two samples were collected within the release extent to evaluate the presence or absence of impacts to the soil. The samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results suggested the samples did not contain elevated VOC or chloride concentrations, and these samples were not submitted to a laboratory for analysis.

XTO Energy, Inc.
Remediation Work Plan
PLU South Frac Pond

On October 10 and November 6, 2024, delineation boreholes BH01 through BH08 were advanced via hand auger and backhoe to assess the vertical extent of the release. Discrete delineation soil samples were collected from each borehole at depths ranging from 0.5 feet to 4 feet bgs. The depths of boreholes BH01 through BH06 were limited by backhoe refusal. All soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

LABORATORY ANALYTICAL RESULTS

The laboratory analytical results for all delineation soil samples indicated no BTEX or TPH were detected in any sample. Chloride concentrations ranged from non-detect to 160 mg/kg. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate the absence of impacted soil and XTO proposes to collect 5-point confirmation soil samples of the release extent to confirm the absence of impacted soil within the release extent. Due to the size of the release and lack of impact identified by delineation, XTO requests a variance for the frequency of confirmation soil samples. XTO proposes five-point composite samples to be collected at a sampling frequency of no more than 400 square feet within the area of the release extent that is greater than 300 feet from the intermittent dry wash. The release extent within the 300-foot radius of the intermittent dry wash will be collected at a sampling frequency of no more than 200 square feet. The proposed sampling frequency would reduce the total amount of samples from approximately 119 samples to approximately 73 samples. The soil samples will be handled as described above and analyzed for all COCs. The 200 square foot sampling grid and the proposed sampling grid are depicted in Figure 3a and Figure 3b for comparison.

XTO will complete the soil sampling activities within 90 days of the date of approval of this *Work Plan* by the NMOCD.

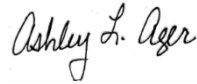
If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

XTO Energy, Inc.
Remediation Work Plan
PLU South Frac Pond

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Engineer



Ashley Ager, PG, MS
Program Director

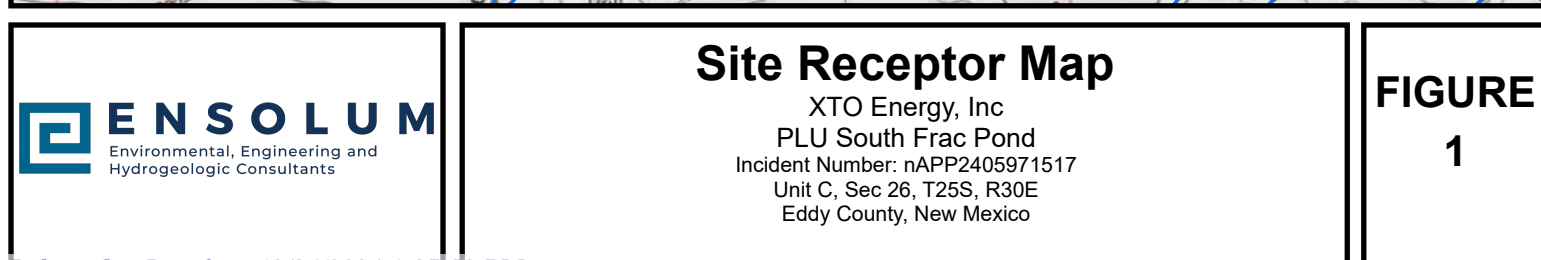
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
BLM

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3a	200 Square Foot Sampling Grid
Figure 3b	Proposed Sampling Grid
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES





Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Electric Line
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.
Sources: Environmental Systems Research Institute (ESRI),
Bing, Enterprise Products Operating LLC

Delineation Soil Sample Locations

XTO Energy, Inc
PLU South Frac Pond
Incident Number: nAPP2405971517
Unit C, Sec 26, T25S, R30E
Eddy County, New Mexico

FIGURE

2

Project Number: 03C1558504





Legend

- Electric Utility Line
- Release Extent
- 200 Sqft Sampling Grid

Sources: Environmental Systems Research Institute (ESRI),
Bing, Enterprise Products Operating LLC

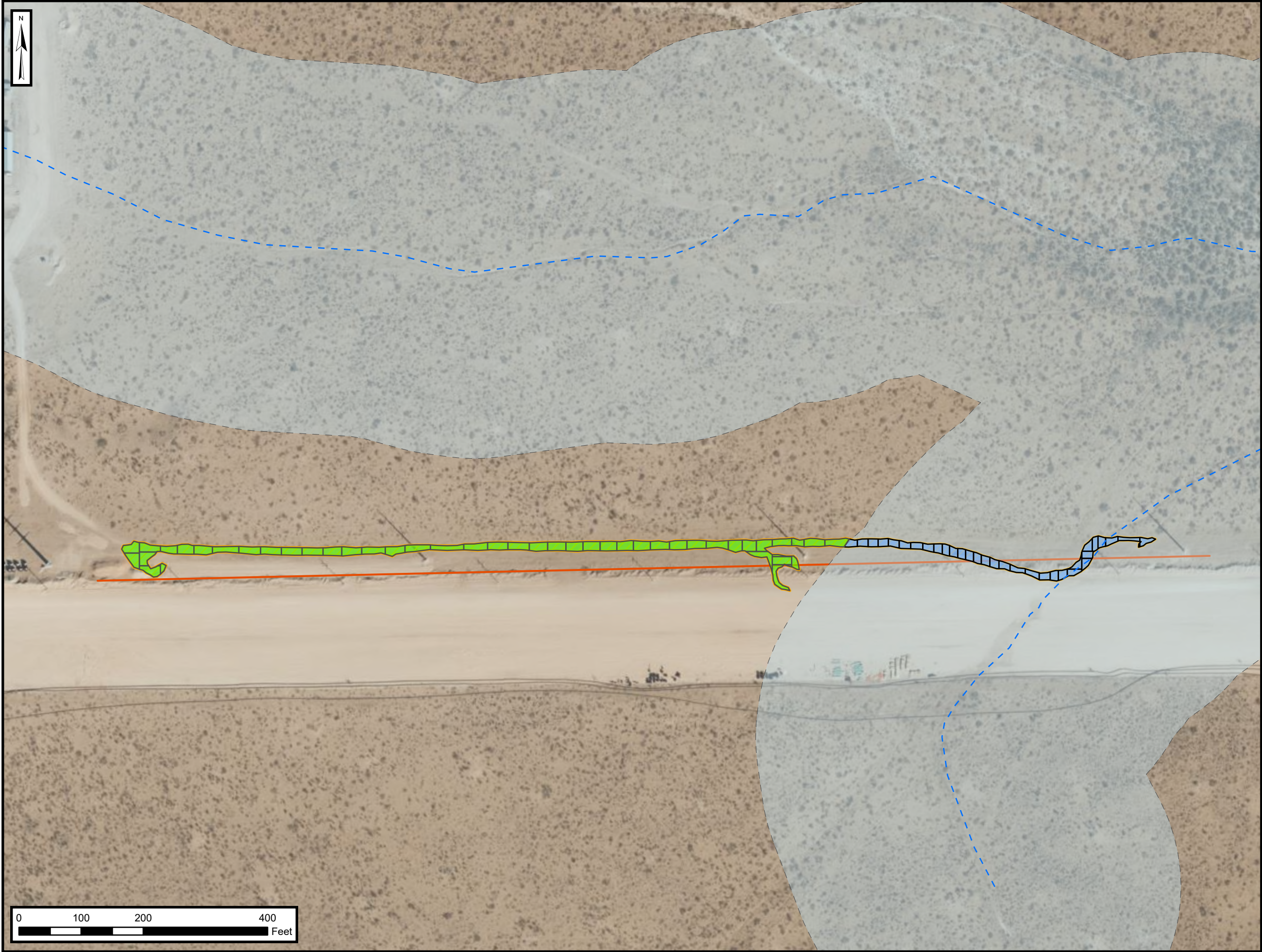
200 Square Foot
Sampling Grid

XTO Energy, Inc
PLU South Frac Pond
Incident Number: nAPP2405971517
Unit C, Sec 26, T25S, R30E
Eddy County, New Mexico

FIGURE
3a

Project Number: 03C1558504





Legend

- Electric Utility Line
- National Hydrography Dataset (NHD) Stream/River
- 400 Sqft Sampling Grid
- 200 Sqft Sampling Grid
- 300 Ft Buffer - NHD Stream/River
- Release Extent

Sources: Environmental Systems Research Institute (ESRI), Bing, Enterprise Products Operating LLC

Proposed Sampling Grid

XTO Energy, Inc
PLU South Frac Pond
Incident Number: nAPP2405971517
Unit C, Sec 26, T25S, R30E
Eddy County, New Mexico

FIGURE 3b

Project Number: 03C1558504



Environmental, Engineering and Hydrogeologic Consultants



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU South Frac Pond
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	NE	100	600
Delineation Soil Samples										
BH01	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH01A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH02	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH03A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH03	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH04	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH05A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH06	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH06A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
BH07	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH07A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH07	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH07B	11/06/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH07C	11/06/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
BH08	10/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH08A	10/10/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH08	11/06/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH08B	11/06/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH08C	11/06/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4498			
	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)	DEGREES LATITUDE 32°	MINUTES 6'	SECONDS 1.96" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103°	50'	26.19" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E								
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 02/24/2021	DRILLING ENDED 02/24/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 109	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 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	109	±6.5	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-4498


POD NO. 1

TRN NO. 682528

LOCATION 132 T25S R30E Sec 25

WELL TAG ID NO. NA

PAGE 1 OF 2

	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	34	34	Caliche, tan, no odor, no stain, gravel, dry	Y ✓ N		
	34	40	6	sand/ caliche, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	40	56	16	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	56	72	16	sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	72	79	7	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	79	109	30	sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, m	Y ✓ N		
					Y N		
					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):		0.00
	<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
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		03/11/2021	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4498	POD NO. 1	TRN NO. 682528
LOCATION 132 T255 R30E Sec 25	WELL TAG ID NO. NA	PAGE 2 OF 2

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 682528
File Nbr: C 04498
Well File Nbr: C 04498 POD1

Mar. 11, 2021

TACOMA MORRISEY
WSP USA
3300 NORTH A STREET
BLDG 1 #222
MIDLAND, TX 79705

Greetings:

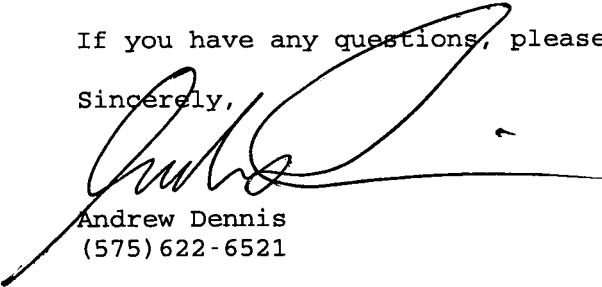
The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/24/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Sincerely,


Andrew Dennis
(575) 622-6521

drywell

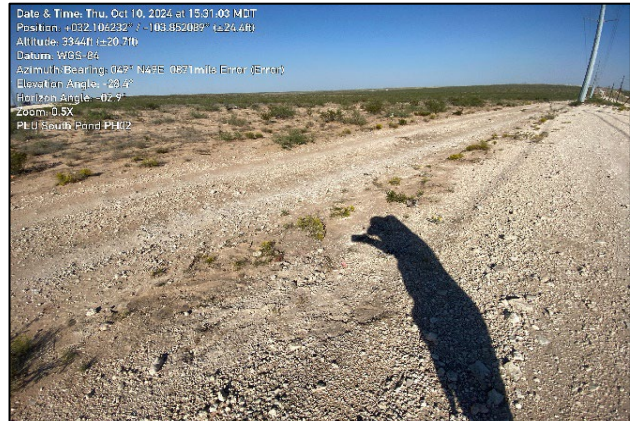


APPENDIX B

Photographic Log

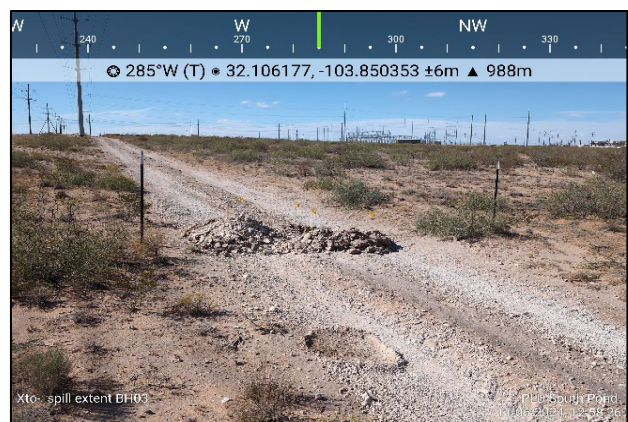
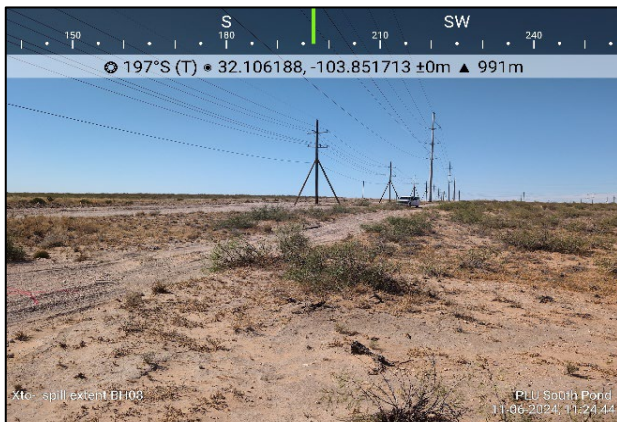


Photographic Log
XTO Energy, Inc
PLU South Frac Pond
nAPP2405971517



Photograph: 1 Date: 2/15/2024
Description: Soil staining in release footprint
View: East

Photograph: 2 Date: 10/10/2024
Description: Delineation activities
View: Northeast




Photograph: 3 Date: 11/6/2024
Description: Delineation activities
View: Southwest


Photograph: 4 Date: 11/6/2024
Description: Delineation activities
View: West





APPENDIX C


Lithologic Soil Sampling Logs


 ENSOLUM		Sample Name: BH01		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106213, -103.852898			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	<168	0.2	N	BH01	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.2	N	BH01A	1	1		
Dry	<168	0.1	N	BH01B	2	2	CCHE	(1-2') CALICHE, tan, trace sand
						Total Depth @ 2 feet - backhoe refusal		


 ENSOLUM		Sample Name: BH02		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106199, -103.851855			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	<168	0.3	N	BH02	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.1	N	BH02A	1	1		
Dry	<168	0.0	N	BH02	2	2	SP	(1-2') SAND, tan/white, trace silt, trace clay, trace caliche
						Total Depth @ 2 feet - backhoe refusal		


 ENSOLUM		Sample Name: BH03		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106212, -103.850979			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	<168	0.1	N	BH03	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.3	N	BH03A	1	1		
Dry	<168	0.0	N	BH03	2	2	SP	(1-2') SAND, tan/white, trace silt, trace clay, trace caliche
						Total Depth @ 2 feet - backhoe refusal		

 ENSOLUM		Sample Name: BH04		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106207, -103.850373			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.7	N	BH04	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.1	N	BH04A	1	1		
						Total Depth @ 1-foot bgs - backhoe refusal		

 ENSOLUM		Sample Name: BH05		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106218, -103.849742			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.0	N	BH05	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.8	N	BH05A	1	1		
						Total Depth @ 1-foot bgs - backhoe refusal		

 ENSOLUM		Sample Name: BH06		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106132, -103.849542			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<168	0.4	N	BH06	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.5	N	BH06A	1	1		
						Total Depth @ 1-foot bgs - backhoe refusal		

 ENSOLUM		Sample Name: BH07		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106205, -103.848783			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Drv	<16	0.3	N	BH07	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Drv	<168	0.7	N	BH07A	1	1		
Drv	<168	0.0	N	BH07	2	2	SP	(0-4') SAND, tan/white, trace silt, trace clay, trace caliche
Drv	240	0.0	N	BH07B	3	3		
Drv	168	0.0	N	BH07C	4	4		
						Total Depth @ 4 feet - backhoe refusal		

 ENSOLUM		Sample Name: BH08		Date: 11/6/2024				
		Site Name: PLU South Pond						
		Incident Number: nAPP2405971517						
		Job Number: 03C1558504						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.106195, -103.847950			Logged By: SB/AV		Method: Hand Auger/Backhoe			
			Hole Diameter: 24"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
Dry	<168	0.3	N	BH08	0.5	0.5	SC	(0-1') CLAY, brown, finely graded, trace silt, trace sand
Dry	<168	0.3	N	BH08A	1	1		
Dry	<168	0.0	N	BH08	2	2	SP	(0-3') SAND, tan/brown, trace silt, trace clay
Dry	<168	0.0	N	BH08B	3	3		(3-4') SAND, tan/brown, trace caliche
Dry	<168	0.0	N	BH08C	4	4		
						Total Depth @ 4 feet - backhoe refusal		



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

October 17, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU SOUTH POND

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 01 0.5' (H246200-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2024	ND	2.08	104	2.00	0.973	
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26	QR-03
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02	QR-03
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	48.0	16.0	10/14/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	220	110	200	4.83	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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*=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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 01A 1' (H246200-02)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	220	110	200	4.83	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 02 0.5' (H246200-03)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	32.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	220	110	200	4.83	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 02A 1' (H246200-04)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	32.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	220	110	200	4.83	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 03 0.5' (H246200-05)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	<16.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	220	110	200	4.83	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	199	99.3	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 03A 1' (H246200-06)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	<16.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 04 0.5' (H246200-07)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	<16.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 04A 1' (H246200-08)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 05 0.5' (H246200-09)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	<16.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 05A 1' (H246200-10)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 06 0.5' (H246200-11)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	96.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 06A 1' (H246200-12)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Analytical Results For:

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

Received: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 07 0.5' (H246200-13)

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	10/15/2024	ND	2.08	104	2.00	0.973	
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02	
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 07A 1' (H246200-14)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	32.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 08 0.5' (H246200-15)

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	10/15/2024	ND	2.08	104	2.00	0.973	
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889	
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02	
Total BTEX	<0.300	0.300	10/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	10/14/2024	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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: 10/11/2024
Reported: 10/17/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO

Sampling Date: 10/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH 08A 1' (H246200-16)

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	10/15/2024	ND	2.08	104	2.00	0.973		
Toluene*	<0.050	0.050	10/15/2024	ND	2.16	108	2.00	0.889		
Ethylbenzene*	<0.050	0.050	10/15/2024	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	10/15/2024	ND	6.75	112	6.00	1.02		
Total BTEX	<0.300	0.300	10/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	10/14/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2024	ND	215	108	200	6.23	
DRO >C10-C28*	<10.0	10.0	10/14/2024	ND	214	107	200	8.24	
EXT DRO >C28-C36	<10.0	10.0	10/14/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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

Page 1 of 2

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

Project #: 030558504

Project Owner:

Project Name: PV South Road

Project Location:

Sampler Name: Shelly Brooks

FOR LAB USE ONLY

P.O. #:

Company: XTO Energy

Attn: CATCHER

Address: 3104 E Greasht.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Sample Name:

Fax #:

PRESERV:

SAMPLING

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	Benzene	BTEX	TPH	Chloride
H246800	B101	0.5'	G	1	GROUNDWATER	X		10:23	10:25	X	X	X	X
1	B101A	1'			WASTEWATER			10:25	10:25	X	X	X	X
2	B102	0.5'			SOIL			12:42	12:42	X	X	X	X
3	B102A	1'			OIL			12:42	12:42	X	X	X	X
4	B103	0.5'			SLUDGE			12:42	12:42	X	X	X	X
5	B103A	1'			OTHER :			12:42	12:42	X	X	X	X
6	B104	0.5'			ACID/BASE:			12:42	12:42	X	X	X	X
7	B104A	1'			ICE / COOL			12:42	12:42	X	X	X	X
8	B105	0.5'			OTHER :			12:42	12:42	X	X	X	X
9	B105A	1'						12:42	12:42	X	X	X	X
10	B106	0.5'						12:42	12:42	X	X	X	X

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Relinquished By:

Date: 10/10/24

Received By:

DATE

TIME

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

Relinquished By: Mike Bruh

Date: 10/11/24

Received By: ASH

DATE

TIME

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

Delivered By: (Circle One)

Observed Temp.: 1.3c

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp.: 0.7c

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: Ensolum, LLC

Project Manager: Tracy Hilad

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-937-3906

Fax #:

Project #: 0301580501

Project Owner:

Project Name: PLV South Pond

Project Location:

Sampler Name: Sheela Brooks

P.O. #:

Company: XTO Energy

Attn: Cotton Brown

Address: 3101 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-887-7324

Fax #:

BILL TO

ANALYSIS REQUEST

Project Manager: Tracy Hildard		P.O. #:																									
Address: 3122 National Parks Hwy		Company: XTO Energy																									
City: Carlsbad		Attn: Colton Brown																									
State: NM Zip: 88220		Address: 3104 E Green St																									
Phone #: 575-937-3906 Fax #:		City: Carlsbad																									
Project #: 03CIS8504 Project Owner:		State: NM Zip: 88220																									
Project Name: PLV South Pond		Phone #: 575-887-7329																									
Project Location:		Fax #:																									
Sampler Name: Sheek Brooks																											
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																
					GROUNDWATER																						
					WASTEWATER																						
					SOIL																						
					OIL																						
					SLUDGE																						
					OTHER :																						
					ACID/BASE:																						
					ICE / COOL																						
					OTHER :																						
					DATE																						
					TIME																						
H246200	B4106	0.5'	G	1	10/16/14	14:03	X	Benzene																			
	B4104	0.5'			14:13	14:06	X	BTEX																			
	B4107	0.5'			14:24	14:24	X	TPH																			
	B4107M	0.5'			14:42	14:42	X	Chloride																			
	B4108	1'			15:03	15:03																					
	B4108A	1'																									

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Relinquished By:

Date: 10/16/14

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By: Sheela Brooks

Date: 10-11-24

Received By: TBA

REMARKS: Will send email to kthomas@ensolum.com

Delivered By: (Circle One)

Observed Temp.: 13.3°C

Sample Condition: ☒ Cool ☐ Intact

CHECKED BY: (Initials)

Turnaround Time: #140

Standard ☒ Rush

Bacteria (only) ☐ Sample Condition ☐ Observed Temp.: °C

Sampler - UPS - Bus - Other:

Corrected Temp.: 0.7°C

Yes ☐ No ☐

872

Thermometer ID: #443

Correction Factor: -0.6°C

Yes ☐ No ☐

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

November 08, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU SOUTH POND

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 02 2' (H246791-01)

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	11/07/2024	ND	2.04	102	2.00	8.56	
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67	
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39	
Total BTEX	<0.300	0.300	11/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 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: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 03 2' (H246791-02)

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	11/07/2024	ND	2.04	102	2.00	8.56	
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67	
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39	
Total BTEX	<0.300	0.300	11/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 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: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 07 2' (H246791-03)

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	11/07/2024	ND	2.04	102	2.00	8.56	
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67	
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39	
Total BTEX	<0.300	0.300	11/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 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: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 07B 3' (H246791-04)

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	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	160	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 07C 4' (H246791-05)

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	11/07/2024	ND	2.04	102	2.00	8.56	
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98	
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67	
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39	
Total BTEX	<0.300	0.300	11/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	160	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 62.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 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: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 08 2' (H246791-06)

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	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	16.0	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 62.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

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Analytical Results For:

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

Received: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 08B 3' (H246791-07)

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	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	<16.0	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

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

Received: 11/07/2024
Reported: 11/08/2024
Project Name: PLU SOUTH POND
Project Number: 03C1558504
Project Location: XTO 32.10618, -103.85288

Sampling Date: 11/06/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 08C 4' (H246791-08)

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	11/07/2024	ND	2.04	102	2.00	8.56		
Toluene*	<0.050	0.050	11/07/2024	ND	2.01	100	2.00	6.98		
Ethylbenzene*	<0.050	0.050	11/07/2024	ND	2.04	102	2.00	5.67		
Total Xylenes*	<0.150	0.150	11/07/2024	ND	6.07	101	6.00	5.39		
Total BTEX	<0.300	0.300	11/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	48.0	16.0	11/08/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	200	100	200	3.01	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	193	96.3	200	3.69	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

[illegible]

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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS

Action 405388

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405971517
Incident Name	NAPP2405971517 PLU SOUTH FRAC POND @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU South Frac Pond
Date Release Discovered	02/14/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 35 BBL Recovered: 0 BBL Lost: 35 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Fluid released from water transfer surface poly line.

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QUESTIONS, Page 2

Action 405388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/20/2024
--	--

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QUESTIONS, Page 3

Action 405388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to 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)	160
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	10/10/2024
On what date will (or did) the final sampling or liner inspection occur	02/18/2025
On what date will (or was) the remediation complete(d)	02/18/2025
What is the estimated surface area (in square feet) that will be reclaimed	17260
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	17260
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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 405388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No impacts identified
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/20/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 405388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 405388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	397608
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	No
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Sante Fe Main Office
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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 405388

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 405388
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The release will need to be remediated to the strictest closure criteria standards due to the lateral extents of the release being within 300 ft of a significant watercourse. Part 2 definition: "Watercourse" means a river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water. Due to the sensitive nature of the release location, the variance request for 400 ft2 confirmation samples within the area of the release extent that is greater than 300 feet from the intermittent dry wash is denied. The release area will need confirmation floor/sidewall samples representing no more than 200 ft2. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to occur in 90 days after the report has been reviewed.	12/26/2024