



July 22, 2025

**New Mexico Oil Conservation Division**

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

**Re:   Deferral Request  
      Hudson 1 Fed Com 010H  
      Incident Number nAPP2512226682  
      Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the Hudson 1 Fed Com 010H (Site). The purpose of the assessment, delineation, excavation, and soil sampling activities was to assess for the presence or absence of impacted soil following a release of crude oil. Based on confirmation soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing site assessment, delineation, excavation, and soil sampling activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2512226682 until the Site is reconstructed, and/or the well pad is abandoned.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit J, Section 1, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.333043°, -103.831507°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 24, 2025, corrosion of a production flow line resulted in the release of approximately 5 barrels (bbls) of produced water and 1 bbl of crude oil onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on May 2, 2025. The release was assigned Incident Number nAPP2512226682.

## **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 approximately 50 feet below ground surface (bgs) based on the nearest groundwater well data. On July 31, 2012, New Mexico Office of State Engineer (OSE) permitted well (C-3559 POD-1) was advanced to a total depth of 50 feet below ground surface (bgs). The depth to groundwater boring is located 0.18 miles north of the Site to determine the regional depth to groundwater. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a emergent wetland, located approximately 2,884 feet southeast 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 underlain by unstable geology (high potential karst designation area).

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

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

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On May 14 and May 15, 2025, Ensolum personnel were at the Site to oversee delineation and excavation activities based on the information provided on the C-141 and visual observations. Six discrete delineation soil samples (SS01 through SS06) were collected around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. Two potholes (PH01 and PH02) were advanced via backhoe to depths ranging from 1 foot to 2 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 0.5 foot bgs to 2 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during all Site activities and a photographic log is included in Appendix B. Field screening results and observations for all boreholes advanced were logged on lithologic/soil sampling logs, which are included in Appendix C.

Based on field screening results of the delineation soil samples, two 5-point confirmation soil samples were collected from the release extent. 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 (CS01 and CS02) were collected from at a depth of 0.5 feet in areas representing no more than 200 square feet. All soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit. The delineation soil sample locations are depicted on Figure 2. The confirmation soil sample locations are depicted on Figure 3.

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

Laboratory analytical results for delineation soil samples SS01 through SS06, collected outside of the release extent, indicated all COC concentrations were in compliance with the Site Closure Criteria and the strictest Table I Closure Criteria, successfully defining the lateral extent of the release. Laboratory

analytical results from delineation soil sample PH02 indicated TPH and chloride concentrations exceeded Site Closure Criteria. Analytical results for the terminal depths of all potholes advanced indicated all COC concentrations were below Closure Criteria, successfully defining the vertical extent of the release. Laboratory analytical results for confirmation soil sample CS01 indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results for confirmation soil sample CS02 indicated TPH concentrations exceeded Closure Criteria.

## EXCAVATION AND SOIL SAMPLING ACTIVITIES

On May 28, 2025, Ensolum personnel returned to Site to oversee excavation activities to address impacted soil identified in the vicinity of PH02 at 0.5 feet and CS02 at 0.5 feet. Impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results. The excavation occurred on the well pad near the wellhead. Excavation activities were performed utilizing heavy equipment and transport vehicles but were limited in areas due to the active wellhead and associated infrastructure present within the release extent. To direct excavation activities, the soil was field screened as described above. The excavation was completed to a depth of 2 feet bgs. A surface scrape of the release extent was performed in the vicinity of PH01 and CS02. Hand tools were utilized to surface scrape the release area to the maximum extent possible (MEP) in the area immediately adjacent to the wellhead. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. Confirmation soil samples (FS01 and FS02) were collected from the floor of the excavation from depths of 2 feet bgs. Confirmation sidewall soil sample (SW01) was collected from the sidewalls of the excavation at depths ranging from ground surface to 2 feet bgs. Confirmation soil sample CS02A was collected in the vicinity of CS02, after the surface scrape, at a depth of 0.5 feet. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent, surface scrape extents, and confirmation soil sample locations were mapped utilizing a GPS unit are presented on Figure 3.

The final excavation extent measured approximately 346 square feet. A total of approximately 40 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was properly disposed of at the OWL Landfill Disposal Facility in Jal, New Mexico. All copies of soil disposal manifests are included in Appendix D.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation excavation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results from CS02A indicated TPH concentrations exceeded the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

## DEFERRAL REQUEST

Due to an active wellhead present in the area, the remaining impacted soil within 10 feet of the wellhead (in the vicinity of CS02A) could not be removed, per XTO policy. As such, XTO is requesting deferral of final remediation. The area of remaining impacted soil measures approximately 91 square feet, and approximately 4 cubic yards of impacted soil remains in place, assuming a depth of 1 feet bgs based on laboratory analytical results from delineation soil sample PH02A. The impacted soil is limited to the area

XTO Energy, Inc  
Deferral Request  
Hudson 1 Fed Com 010H



immediately adjacent to the active wellhead and supporting infrastructure where safety hazards prohibit excavation without major facility deconstruction. The release extent has been vertically delineated by soil samples FS01, FS02, and PH01A. The release extent has been laterally delineated by delineation soil samples SS01 through SS06. The requested area of deferral and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The entirety of the release remained on pad, and the impacted soil is limited to the area immediately adjacent to the active wellhead. Based on the presence of active production equipment and process piping within the release area and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2512226682 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink, appearing to read "Jeremy Reich".

Jeremy Reich  
Project Geologist

A handwritten signature in black ink, appearing to read "Tacoma Morrissey".

Tacoma Morrissey  
Associate Principal

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
BLM

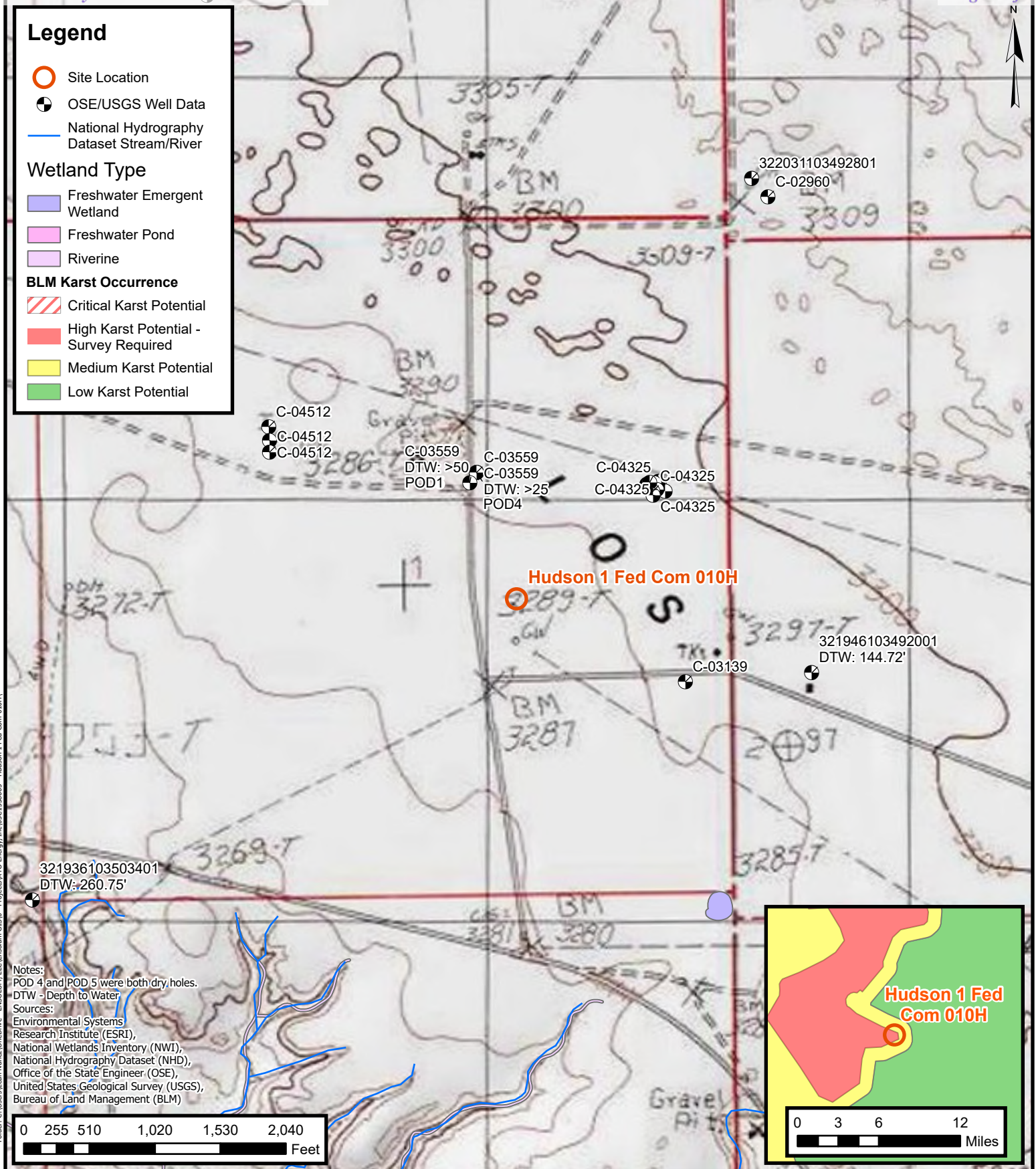
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Soil Disposal Manifests
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES



## Site Receptor Map

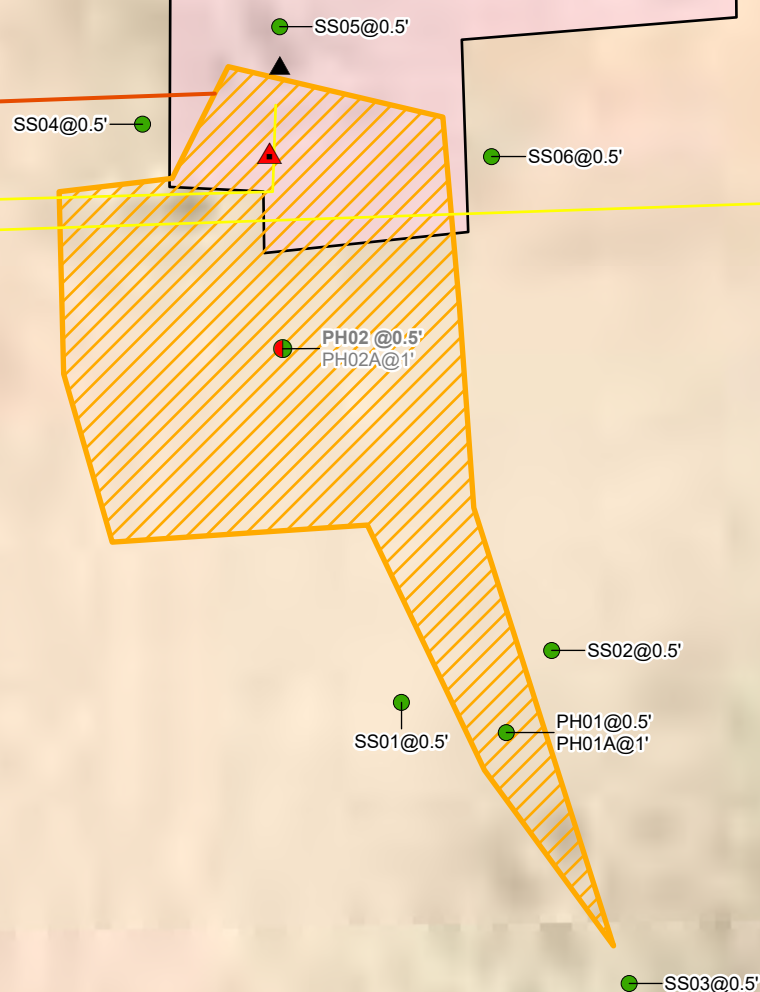
XTO Energy, Inc  
 Hudson 1 Fed Com 010H  
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 Unit J, Section 01, T 23S, R 30E  
 Eddy County, New Mexico

**FIGURE**

**1**

## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Wellhead
- ▲ Point of Release (POR)
- Electric Utility Line
- Oil and Gas Utility Line
- Wellhead/Equipment
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable Closure Criteria.  
 Grey text indicate soil sample was removed during excavation activities.

Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

XTO Energy, Inc  
 Hudson 1 Fed Com 010H  
 Incident Number: nAPP2512226682  
 Unit J, Section 01, T 23S, R 30E  
 Eddy County, New Mexico

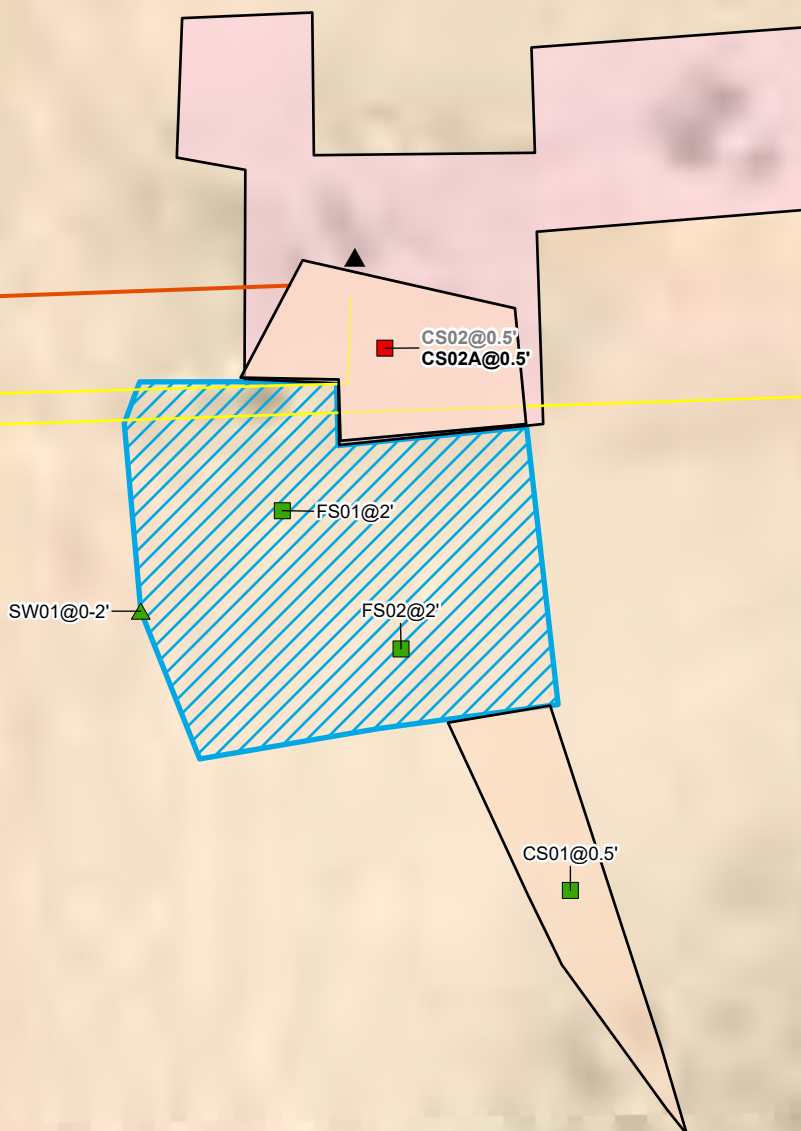
FIGURE

2



**Legend**

- Confirmation Floor  
Sample in Compliance with Closure Criteria
- Confirmation Sidewall  
Sample in Compliance with Closure Criteria
- Confirmation Floor  
Sample with Concentrations Exceeding Closure Criteria
- Wellhead
- Electric Utility Line
- Oil and Gas Utility Line
- Hand Scrape Area
- Wellhead/Equipment
- Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable Closure Criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 10 20  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Locations

XTO Energy, Inc  
 Hudson 1 Fed Com 010H  
 Incident Number: nAPP2512226682  
 Unit J, Section 01, T 23S, R 30E  
 Eddy County, New Mexico

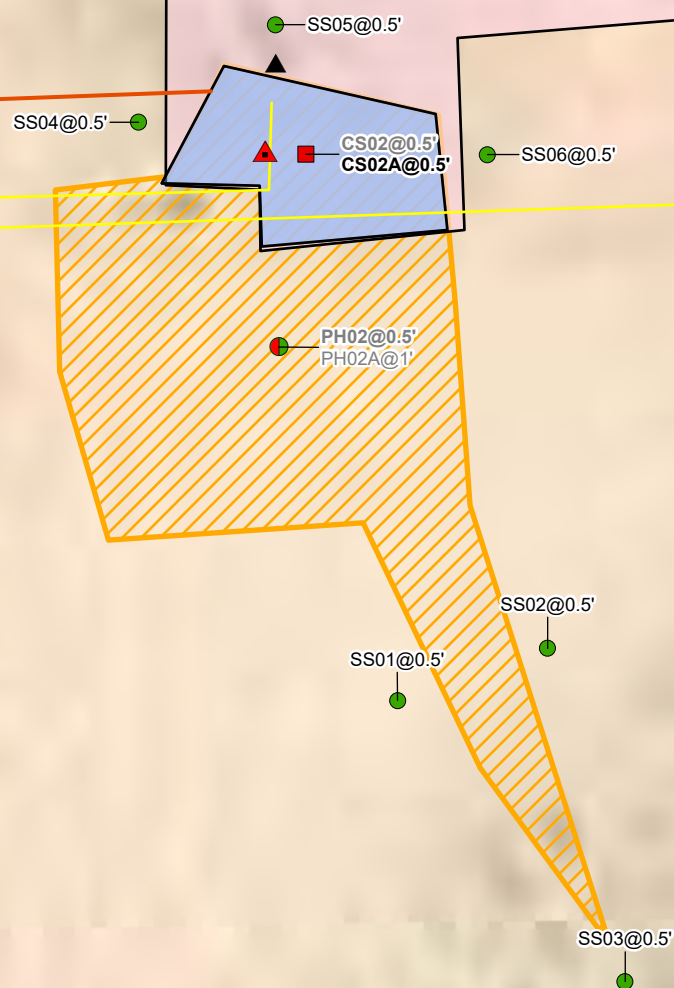
**FIGURE**

**3**



## Legend

- Confirmation Floor Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Wellhead
- Point of Release (POR)
- Electric Utility Line
- Oil and Gas Utility Line
- Deferral Area
- Infrastructure
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 10 20  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Area of Requested Deferral

XTO Energy, Inc  
 Hudson 1 Fed Com 010H  
 Incident Number: nAPP2512226682  
 Unit J, Section 01, T 23S, R 30E  
 Eddy County, New Mexico

FIGURE

4





TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Hudson 1 Federal Com 010H**  
**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										
SS01	05/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS02	05/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	05/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	05/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS05	05/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS06	05/15/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH01	05/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH01A	05/14/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH02	05/14/2025	0.5	<0.050	<0.300	<10.0	542	350	542	892	1,810
PH02A	05/14/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
Confirmation Soil Samples										
CS01	05/14/2025	0.5	<0.050	<0.300	<10.0	56.5	<10.0	56.5	56.5	48.0
CS02	05/15/2025	0.5	<0.050	<0.300	<10.0	277	88.7	277	366	16.0
CS02A	05/28/2025	0.5	<0.050	<0.300	<10.0	128	25.0	128	153	48.0
FS01	05/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	05/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW01	05/28/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

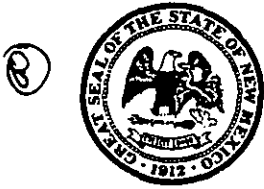
Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE ENGINEER OFFICE  
ROSWELL, NM 87603

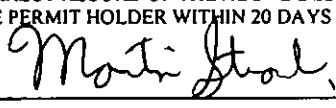
7012 AUG 13 P 1:13

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) JAMES RANCH UNIT #36 BATTERY SB-1 (POD-1)				OSE FILE NUMBER(S) C-03559			
	WELL OWNER NAME(S) BOPCO OPERATING CO				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6 DESTA DRIVE SUITE 3700, P.O. BOX 2760				CITY MIDLAND		STATE TX	ZIP 79702
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 20	SECONDS 9.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
2. OPTIONAL	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS FROM THE CORNER OF HWY 128 AND WIPP RD GO N FOR 4TH OF MILE TURN L FOLLOW CALICHE RD TO SITE.							
	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) SECTION 1	TOWNSHIP 23	RANGE 30		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT G	
	HYDROGRAPHIC SURVEY				MAP NUMBER	TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER MARTIN STRAUB		NAME OF WELL DRILLING COMPANY STRAUB CORPORATION			
	DRILLING STARTED 7-31-12		DRILLING ENDED 7-31-12		DEPTH OF COMPLETED WELL (FT) 0		BORE HOLE DEPTH (FT) 50'	
					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 <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (FT) FROM TO		BORE HOLE DIA. (IN)		CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)
	0 50'		5"		N/A	N/A	N/A	N/A
4. WATER BEARING STRATA	DEPTH (FT) FROM TO		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)		

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER C-3559	POD NUMBER 1	TRN NUMBER 507137
LOCATION Expl - Boreholes 23E. 30E. 1. 234		PAGE 1 OF 2

<b>5. SEAL AND PUMP</b>	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	<b>ANNULAR SEAL AND GRAVEL PACK</b>	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2'				
	2'	50'	5"	11 BAGS OF 3/8 HOLE PLUG		TOPLOAD	
<b>6. GEOLOGIC LOG OF WELL</b>	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO					
	0	2'	2'	TAN FINE SAND - CALICHE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	2'	5'	3'	BASIN FINE SAND - CALICHE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	5'	8"	3'	TAN FINE SAND - SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	8'	13'	5'	RED FINE SAND	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	13'	15'	2'	TAN FINE SAND	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	15'	36'	21'	RED FINE SAND (DRK) - SANDSTONE WITH CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	36'	50'	14'	RED SILTY SAND - SILTY CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	TD	50'			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL						
<b>7. TEST &amp; ADDITIONAL INFO</b>	WELL TEST		METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:				
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.						
	ADDITIONAL STATEMENTS OR EXPLANATIONS: SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING EDDY COUNTY NM EDWARD BRYAN (DRILLING SUPERVISOR)						
<b>8. SIGNATURE</b>	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 20 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">             _____            SIGNATURE OF DRILLER         </div> <div style="text-align: center;">           8-10-12            _____            DATE         </div> </div>						

FOR OSE INTERNAL USE

WELL RECORD &amp; LOG (Version 6/9/08)

FILE NUMBER

C-3559

POD NUMBER

1

TRN NUMBER

507137

LOCATION

PAGE 2 OF 2



## APPENDIX B

### Photographic Log

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**Photographic Log**  
 XTO Energy, Inc.  
 Hudson 1 Fed Com 010H  
 NAPP2512226682

S 180 210 240 270 300 330  
 SW W NW  
 247°SW (T) 32°19'59"N, 103°49'52"W ±13ft ▲ 3298ft



Photograph: 1 Date: 5/14/2025  
 Description: Excavation activities near FS01, SW01, CS02  
 View: Southwest

N 0 30 60 90 120 S  
 NE E  
 65°NE (T) 32°19'59"N, 103°49'53"W ±16ft ▲ 3294ft



Photograph: 2 Date: 5/15/2025  
 Description: Area near requested deferral (CS02)  
 View: East

BRG: 45°NE (T) POS: 32.333, -103.831433 ±6ft ALT: 3202ft



Photograph: 3 Date: 5/28/2025  
 Description: Excavation activities near FS01, FS02, SW01, SW02  
 View: Northeast

BRG: 28°N (T) POS: 32.33288, -103.831489 ±45ft ALT: 3225ft



Photograph: 4 Date: 5/28/2025  
 Description: Scrape extent near CS02  
 View: North



**Photographic Log**

XTO Energy, Inc.

Hudson 1 Fed Com 010H

NAPP2512226682



Photograph 5

Date: 5/28/2025

Description: Hand scraping activities near CS02



Photograph 6

Date: 5/28/2025


Description: Handscape and excavation activities; FS01, FS02, CS02, SW01




## APPENDIX C

### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>		Sample Name: PH01		Date: 5/14/2025				
		Site Name: Hudson 1 Fed Com010H						
		Incident Number: nAPP2512226682						
		Job Number: 03C1558665						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.332984, -103.831498			Logged By: Uriel S.		Method: Backhoe			
			Hole Diameter: 4'		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. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<173.6	0.2	N	PH01	0.5	0	SP	(0-1'), SAND, Light Brown, fine-medium grain, noncohesive, little Silt
D	<173.6	0.0	N	PH01A	1	1		
Total Depth @ 1 Foot								

 <b>ENSOLUM</b>		Sample Name: PH02		Date: 5/14/2025				
		Site Name: Hudson 1 Fed Com010H						
		Incident Number: nAPP2512226682						
		Job Number: 03C1558665						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.333029, -103.831504				Logged By: Uriel S.				
				Method: Backhoe				
				Hole Diameter: 4'				
				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. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1775	4.1	N	PH02	0.5	0	SP	(0-2') SAND w/ little Silt, Born, Coarse - fine grained, well graded, Non cohesive
D	369.6	3.2	N	PH02A	1	1		
D	240.8	2.3	N			2		
						Total Depth @ 2 Feet		



## APPENDIX D

### Soil Disposal Manifests

---



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300  
Dallas, TX 75219  
505.231.1212  
ar@ndblandfill.com

COMPANY MAN: Kent Ketz  
(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #****0405134**COMPANY NAME: XTOLEASE: Hudson, Fed com 010 HAFE #: 1139081001 API: 30-015-32309RIG NAME: CC 1139081001 WELL #: 010 HSTATE & COUNTY ORIGIN: EDDYDATE: 5-28-25

PHONE: \_\_\_\_\_

QUANTITY: \_\_\_\_\_ ☐ BBLS\_\_\_\_\_ 20 ☐ YARDS

Waste Description (check only one box)

☐ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Sum Tex max YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 64ADDRESS: \_\_\_\_\_ TICKET #: \_\_\_\_\_ ROLL OFF BIN#: \_\_\_\_\_ TRAILER #: 0233DATE \_\_\_\_\_ TIME \_\_\_\_\_ ☐ AM DISPATCHER \_\_\_\_\_ DISPATCHERRECEIVED: \_\_\_\_\_ RECEIVED: \_\_\_\_\_ ☐ PM NAME: \_\_\_\_\_ PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Nabor Rodriguez DRIVER'S SIGNATURE: NR

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 5/28/25 TIME IN: 6:30 AM / PM

TIME OUT: \_\_\_\_\_ AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM  
TESTING:(Less than 50  
MCR)

Shake Out:

	1	2	3
H <sub>2</sub> O			
S			

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: \_\_\_\_\_  
Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator





# **OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

3889 Maple Ave. Suite 300

Dallas, TX 75219

505.231.1212

ar@ndblandfill.com

COMPANY MAN: Kent Ritz

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

**0405135**

COMPANY NAME: XTO

DATE: 5-28-25

LEASE: Hudson 1 Fed com 01041

PHONE: \_\_\_\_\_

AFE # Incident: NAPP 2512226682

API: 30-015-37309

QUANTITY: \_\_\_\_\_

☐ BBLs

RIG NAME: CC: 1139081001

WELL #: D10 H

20

☒ YARDS

STATE & COUNTY ORIGIN: EDDY

Waste Description (check only one box)

☐ RCRA Exempt

☐ RCRA Non-Exempt

☐ Water Based Cuttings (DRY)

☐ Water Based Cuttings (WET)

☐ Contaminated Soil

☐ Produced Sands

☐ Oil Based Cuttings (DRY)

☐ Oil Based Cuttings (WET)

☐ Injectable Fluids

☐ Non-Injectable Fluids

☐ Oil Base Mud

☐ Water Base Mud

☐ Muds w/Cement

☐ Tank Bottoms

☐ Rig Trash

☐ Pit Liners

Authorize Washout?

☐ Yes

☒ No

☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☒ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information

☐ RCRA Hazardous Waste Analysis

☐ Process Knowledge

☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

## **TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**

COMPANY NAME: Sem Tex mex

YARD #: \_\_\_\_\_

WHP #: \_\_\_\_\_

TRUCK #: 39

ADDRESS: \_\_\_\_\_

TICKET #: \_\_\_\_\_

ROLL OFF BIN#: \_\_\_\_\_

TRAILER #: 0304

DATE

TIME

☐ AM

DISPATCHER

DISPATCHER

RECEIVED: \_\_\_\_\_

RECEIVED: \_\_\_\_\_

☐ PM

NAME: Billy Wieler

PHONE #: 132-309-0851

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**

DRIVER: Corny Reimer

DRIVER'S SIGNATURE: Rock Reimer

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

## **TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 5/28/25

TIME IN: 6:27

AM / PM

TIME OUT: \_\_\_\_\_

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
TCLP: PASS FAIL N/A  
TOX: PASS FAIL N/A

NORM  
TESTING:  
(Less than 50 MCR)

Shake Out:		
1	2	3

328181

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: \_\_\_\_\_

Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

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

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May 19, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HUDSON 1 FED COM 010H

Enclosed are the results of analyses for samples received by the laboratory on 05/15/25 14:00.

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](http://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, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PH 02 0.5' (H252939-01)**

BTX 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	05/16/2025	ND	1.99	99.6	2.00	1.60	
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61	
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22	
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03	
Total BTX	<0.300	0.300	05/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1810	16.0	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	542	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	350	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 66.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.2 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PH 02A 1' (H252939-02)**

BTX 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	05/16/2025	ND	1.99	99.6	2.00	1.60	
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61	
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22	
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03	
Total BTX	<0.300	0.300	05/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	240	16.0	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 67.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.5 % 40.6-153

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, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PH 01 0.5' (H252939-03)**

BTX 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	05/16/2025	ND	1.99	99.6	2.00	1.60		
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61		
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22		
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03		
Total BTX	<0.300	0.300	05/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 67.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.3 % 40.6-153

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, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: PH 01A 1' (H252939-04)**

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	05/16/2025	ND	1.99	99.6	2.00	1.60	
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61	
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22	
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03	
Total BTEX	<0.300	0.300	05/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.9 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 01 0.5' (H252939-05)**

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	05/16/2025	ND	1.99	99.6	2.00	1.60		
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61		
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22		
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03		
Total BTEx	<0.300	0.300	05/16/2025	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	160	16.0	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 40.6-153

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, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 02 0.5' (H252939-06)**

BTX 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	05/16/2025	ND	1.99	99.6	2.00	1.60		
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61		
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22		
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03		
Total BTX	<0.300	0.300	05/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.2 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 03 0.5' (H252939-07)**

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	05/16/2025	ND	1.99	99.6	2.00	1.60		
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61		
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22		
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03		
Total BTEX	<0.300	0.300	05/16/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.3 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/15/2025  
 Reported: 05/19/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/14/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 01 0.5' (H252939-08)**

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	05/16/2025	ND	1.99	99.6	2.00	1.60	
Toluene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	3.61	
Ethylbenzene*	<0.050	0.050	05/16/2025	ND	2.12	106	2.00	4.22	
Total Xylenes*	<0.150	0.150	05/16/2025	ND	6.56	109	6.00	4.03	
Total BTEx	<0.300	0.300	05/16/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	05/16/2025	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	05/16/2025	ND	172	86.0	200	1.18	
DRO >C10-C28*	56.5	10.0	05/16/2025	ND	180	90.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/16/2025	ND					

Surrogate: 1-Chlorooctane 72.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.5 % 40.6-153

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\*=Accredited Analyte

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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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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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST													
Project Manager: Jeremy Reich				P.O. #:																	
Address: 601 N Marienfeld Street, Suite 400				Company: XTO Energy, Inc																	
City: Midland		State: TX		Zip: 79701		Attn: Colton Brown															
Phone #: 432-296-0627		Fax #:		Address: 3104 E Greene St																	
Project #: 03C1558665		Project Owner: XTO Energy		City: Carlsbad																	
Project Name: Hudson 1 Fed Com 010H - SPILLS				State: NM Zip: 88220																	
Project Location: 32.33312,-103.83097				Phone #:																	
Sampler Name: Uriel Santillana				Fax #:																	
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500								
	H252939	PH02	0.5	G	1	GROUNDWATER			5/14/25	1105	X	X	X								
	1	PH02A	1							1107											
	2	PH01	0.5							1212											
	3	PH01A	1							1215											
	4	SS01	0.5							1340											
	5	SS02								1343											
	6	SS03		G						1344											
	7	CS01		C						1347											
	8																				

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Relinquished By:	Date: 5-15-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1400			All Results are emailed. Please provide Email address: jreich@ensolum.com	
Relinquished By:	Date:	Received By:	BBeall@ensolum.com, TMorrissey@ensolum.com, usantillana@ensolum.com	
Time:			REMARKS: Incident Number: nAPP2512226682	
Delivered By: (Circle One)	Observed Temp. °C 2.6	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Cost Center: 1139081001	
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.9	Checked By: (Initials)	GFCM: 48605000 API: 30-015-37309	
			Turnaround Time: 48hr	Bacteria (only) Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
			Thermometer ID #413	Cool <input type="checkbox"/> Intact <input type="checkbox"/>
			Correction Factor -0.5°C	Yes <input type="checkbox"/> No <input type="checkbox"/>
				Observed Temp. °C
				Corrected Temp. °C

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



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May 22, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HUDSON 1 FED COM 010H

Enclosed are the results of analyses for samples received by the laboratory on 05/20/25 13:35.

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/20/2025  
 Reported: 05/22/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 04 0.5' (H253017-01)**

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	05/20/2025	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/21/2025	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	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/20/2025  
 Reported: 05/22/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 05 0.5' (H253017-02)**

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	05/20/2025	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49		
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19		
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36		
Total BTEx	<0.300	0.300	05/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/21/2025	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	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/20/2025  
 Reported: 05/22/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 06 0.5' (H253017-03)**

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	05/20/2025	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49		
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19		
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/20/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/21/2025	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	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/20/2025  
 Reported: 05/22/2025  
 Project Name: HUDSON 1 FED COM 010H  
 Project Number: 03C1558665  
 Project Location: XTO 32.33312-103.83097

Sampling Date: 05/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 02 0.5' (H253017-04)**

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	05/20/2025	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/20/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/21/2025	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	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	277	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	88.7	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





---

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

---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

---

Celey D. Keene, Lab Director/Quality Manager





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

May 29, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: HUDSON 1 FED COM 010H- SPILL

Enclosed are the results of analyses for samples received by the laboratory on 05/28/25 13:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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](http://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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/28/2025  
Reported: 05/29/2025  
Project Name: HUDSON 1 FED COM 010H- SPILL  
Project Number: 03C1558665  
Project Location: XTO 32.33312-103.83097

Sampling Date: 05/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 01 2' (H253191-01)**

BTX 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	05/28/2025	ND	1.96	97.8	2.00	1.81	
Toluene*	<0.050	0.050	05/28/2025	ND	2.05	102	2.00	1.49	
Ethylbenzene*	<0.050	0.050	05/28/2025	ND	2.02	101	2.00	0.918	
Total Xylenes*	<0.150	0.150	05/28/2025	ND	5.95	99.1	6.00	0.919	
Total BTX	<0.300	0.300	05/28/2025	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	32.0	16.0	05/29/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2025	ND	211	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	05/28/2025	ND	198	99.2	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	05/28/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/28/2025  
Reported: 05/29/2025  
Project Name: HUDSON 1 FED COM 010H- SPILL  
Project Number: 03C1558665  
Project Location: XTO 32.33312-103.83097

Sampling Date: 05/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS 02 2' (H253191-02)**

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	05/28/2025	ND	1.96	97.8	2.00	1.81	
Toluene*	<0.050	0.050	05/28/2025	ND	2.05	102	2.00	1.49	
Ethylbenzene*	<0.050	0.050	05/28/2025	ND	2.02	101	2.00	0.918	
Total Xylenes*	<0.150	0.150	05/28/2025	ND	5.95	99.1	6.00	0.919	
Total BTEX	<0.300	0.300	05/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	05/29/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2025	ND	211	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	05/28/2025	ND	198	99.2	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	05/28/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/28/2025  
Reported: 05/29/2025  
Project Name: HUDSON 1 FED COM 010H- SPILL  
Project Number: 03C1558665  
Project Location: XTO 32.33312-103.83097

Sampling Date: 05/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 01 0.2' (H253191-03)**

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	05/28/2025	ND	1.96	97.8	2.00	1.81		
Toluene*	<0.050	0.050	05/28/2025	ND	2.05	102	2.00	1.49		
Ethylbenzene*	<0.050	0.050	05/28/2025	ND	2.02	101	2.00	0.918		
Total Xylenes*	<0.150	0.150	05/28/2025	ND	5.95	99.1	6.00	0.919		
Total BTEX	<0.300	0.300	05/28/2025	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	112	16.0	05/29/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2025	ND	211	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	05/28/2025	ND	198	99.2	200	3.79	
EXT DRO >C28-C36	<10.0	10.0	05/28/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

---

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 1

Company Name: Ensolum, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>							
Project Manager: <u>Jeremy Reich</u>				P.O. #:											
Address: 3122 National Parks Hwy				Company: XTO Energy Inc											
City: Carlsbad State: NM Zip: 88220				Attn: Colton Brown											
Phone #: 432 296 0627 Fax #:				Address: 3104 E Green St											
Project #: 030558665 Project Owner: XTO				City: Carlsbad											
Project Name: <u>Hudson 1 Fed Com 010H-Spill</u>				State: NM Zip: 88220											
Project Location: <u>32.33312, -103.83097</u>				Phone #:											
Sampler Name: <u>Joshua Boxley</u>				Fax #:											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chlorides	TPH	BTEX		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				ICE / COOL	OTHER:
<u>1253191</u>															
<u>1</u>	F501	<u>2</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>		
<u>2</u>	F502	<u>2</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>		
<u>3</u>	SW01	<u>0-2</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>		

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Relinquished By: <u>[Signature]</u>	Date: <u>5-28-25</u> Time: <u>1349</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: <u>jreich @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com</u>
Delivered By: (Circle One)	Observed Temp. °C <u>26.0</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: <u>APP 2512226682</u> <u>API: 30-015-37309</u> Cost Center: <u>1139081001</u> <u>GFCM: 49605000-spills</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>3.9</u>	CHECKED BY: (Initials) <u>SR</u>	Turnaround Time: <u>24 hr</u> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Thermometer ID: <u>#146</u> <u>110-3</u> Corrected Temp. °C

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

May 29, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: HUDSON 1 FED COM 010H- SPILL

Enclosed are the results of analyses for samples received by the laboratory on 05/28/25 13:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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](http://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' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
JEREMY REICH  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/28/2025  
Reported: 05/29/2025  
Project Name: HUDSON 1 FED COM 010H- SPILL  
Project Number: 03C1558665  
Project Location: XTO 32.33312-103.83097

Sampling Date: 05/28/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 02A 0.5' (H253192-01)**

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	05/28/2025	ND	1.96	97.8	2.00	1.81		
Toluene*	<0.050	0.050	05/28/2025	ND	2.05	102	2.00	1.49		
Ethylbenzene*	<0.050	0.050	05/28/2025	ND	2.02	101	2.00	0.918		
Total Xylenes*	<0.150	0.150	05/28/2025	ND	5.95	99.1	6.00	0.919		
Total BTEX	<0.300	0.300	05/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	05/29/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/28/2025	ND	211	106	200	2.07	
DRO >C10-C28*	128	10.0	05/28/2025	ND	198	99.2	200	3.79	
EXT DRO >C28-C36	25.0	10.0	05/28/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

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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 1

[illegible]

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 487485

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  487485
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2512226682
Incident Name	NAPP2512226682 HUDSON 1 FED COM 010H @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Hudson 1 FED COM 010H
Date Release Discovered	04/24/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 1 BBL   Recovered: 1 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 5 BBL   Recovered: 5 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Action 487485

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 487485
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 07/22/2025
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Action 487485

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 487485
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<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>	
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
<b>Soil Contamination Sampling:</b> (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)	153
GRO+DRO (EPA SW-846 Method 8015M)	128
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	05/14/2025
On what date will (or did) the final sampling or liner inspection occur	05/28/2025
On what date will (or was) the remediation complete(d)	05/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
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	520
What is the estimated volume (in cubic yards) that will be remediated	40
<i>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.</i>	
<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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Action 487485

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  487485
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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)	Not answered.
<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: 07/22/2025
<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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Action 487485

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  487485
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Active wellhead and supporting infrastructure including metal barriers, subsurface flowlines and electrical lines and chemical tanks
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	91
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	4
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-37309 HUDSON 1 FEDERAL COM #010H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: 07/22/2025

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Action 487485

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 487485
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	466381
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/30/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

**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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CONDITIONS

Action 487485

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
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CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	8/14/2025