



September 26, 2025

**New Mexico Energy Minerals and Natural Resources Department**

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

**Re: Deferral Request  
Big Eddy Unit DI 30 West Battery  
Incident Number NAPP2510532038  
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 Big Eddy Unit DI 30 West Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2510532038 until the Site is reconstructed, and/or the well pad is abandoned.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit I, Section 15, Township 20 South, Range 31 East, in Eddy County, New Mexico (32.57001°, -103.85208°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 14, 2025, corrosion on a surface produced water dump line resulted in the release of approximately 14.0 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and process piping. A vacuum truck was immediately dispatched to the Site and recovered approximately 10 bbls of released fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Notification of Release (NOR) on April 15, 2025, and an Initial C-141 Application (C-141) on April 19, 2025. The release was assigned Incident Number NAPP2510532038.

The release location was originally reported to the NMOCD online portal to be in Unit A of Section 15, Township 20 South, Range 31 East; however, based on photographic evidence that includes Global Positioning System (GPS) coordinates of the release, in relation to the reported GPS coordinates, the correct location is in Unit I as described above.

#### **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.

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Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on nearby depth to groundwater data. The nearest groundwater well is well 323421103515501, permitted by the United States Geological Survey (USGS), and is located approximately 0.82 miles west of the Site. The most recent depth to groundwater measurement is 49 feet bgs and was measured on March 2, 1994. The total depth of the well is 106 bgs. The well log is provided in Appendix A. All wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a riverine located approximately 18,900 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the nearest depth to groundwater data exceeding a distance of 0.5 miles from the Site, as preferred by the NMOCD, the following 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 ACTIVITIES

On April 21, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eleven delineation soil samples (SS01 through SS11) were collected at a depth 0.5 feet bgs. Delineation soil samples SS01 through SS07 were collected outside of the release extent to define the edge of the release and delineation soil samples SS08 through SS11 were collected within the release extent. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was collected, and a photographic log is included in Appendix B.

The delineation 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 constituents 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 Standard Method SM4500.

Laboratory analytical results from delineation soil samples SS08 through SS11 indicated chloride concentrations exceeded the Closure Criteria. Soil samples collected outside of the release extent (SS01 through SS07) exhibited COC concentrations in compliance with the Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results, additional delineation and excavation of impacted soil appeared warranted.

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## DELINEATION AND EXCAVATION ACTIVITIES

From May 5 through July 25, 2025, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Three potholes (PH01, SS08A/SS08B, and SS10A) were advanced by heavy equipment and four boreholes (BH01, PH02, SS01A, and SS02A) were advanced by hand auger to assess the lateral and vertical definition of the release. Potholes SS01A, SS02A, SS08A/SS08B, and SS10A were advanced in the vicinity of delineation soil samples SS01, SS02, SS08, and SS10, respectively. All potholes and boreholes were advanced to depths ranging from 1-foot to 3 feet bgs. Discrete delineation soil samples were collected from each pothole and borehole at depths ranging from 0.5 feet to 3 feet bgs. The delineation soil samples were field screened, handled, and submitted to Cardinal for analysis for the same COCs as described above. Field screening results and observations from all potholes and boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Soil was excavated to the maximum extent practicable (MEP) with heavy equipment in the area represented by delineation soil samples SS08, SS08A, and SS09 through SS11, all of which contained chloride concentrations exceeding the Closure Criteria. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment. Following the removal of accessible impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. Confirmation soil samples FS01 through FS10 were collected from the floor of the excavation at depths ranging from 0.5 feet to 3 feet bgs and SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples were handled and analyzed in the same manner as described above. All floor and sidewall excavation confirmation soil sample locations are depicted on Figure 3.

The final excavation extent measured approximately 2,000 square feet. A total of approximately 160 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico. Copies of all soil disposal manifests are provided in Appendix D.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS08, SS08A, and SS09 through SS11 indicated chloride concentrations exceeded Site Closure Criteria, but all these samples were removed by excavation. Analytical results for delineation soil sample PH02 indicated chloride concentrations exceeded Closure Criteria, but this area could not be removed by excavation due to the presence of active production equipment and process piping. Analytical results for all other delineation soil samples collected indicated all COC concentrations were below Closure Criteria. This includes all terminal pothole and borehole depths and all lateral delineation soil samples, fully defining the release vertically and laterally.

Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated that all COC concentrations are below Closure Criteria. Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix E.

## DEFERRAL REQUEST

Due to active production equipment and process piping present in the area of where the release occurred, the remaining impacted soil, as indicated in the area of PH02, could not be removed. All accessible impacted soil was excavated to the MEP. The estimated area of remaining impacted soil

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measures an estimated 100 cubic yards in a 1,310 square foot area, assuming a depth of 2 feet bgs based on analytical results of PH02A. The impacted soil is limited to the area beneath active production equipment and process piping where remediation would require a major facility deconstruction. The requested deferral area has been vertically defined by soil samples PH02A collected at 2 feet bgs, and laterally defined by BH01/BH01A, SS01/SS01A, SS02/SS02A, and confirmation sidewall sample SW01. The proposed deferral area and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4.

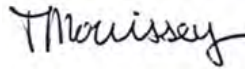
XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The entirety of the release remained on pad and all confirmation soil samples collected from the final excavation extent indicated all COCs were below Closure Criteria. Based on the presence 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 NAPP2510532038 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**



Benjamin J. Belill  
Senior Geologist



Tacoma Morrissey  
Associate Principal

cc: Ashley McAfee, XTO  
Kaylan Dirkx, XTO  
BLM

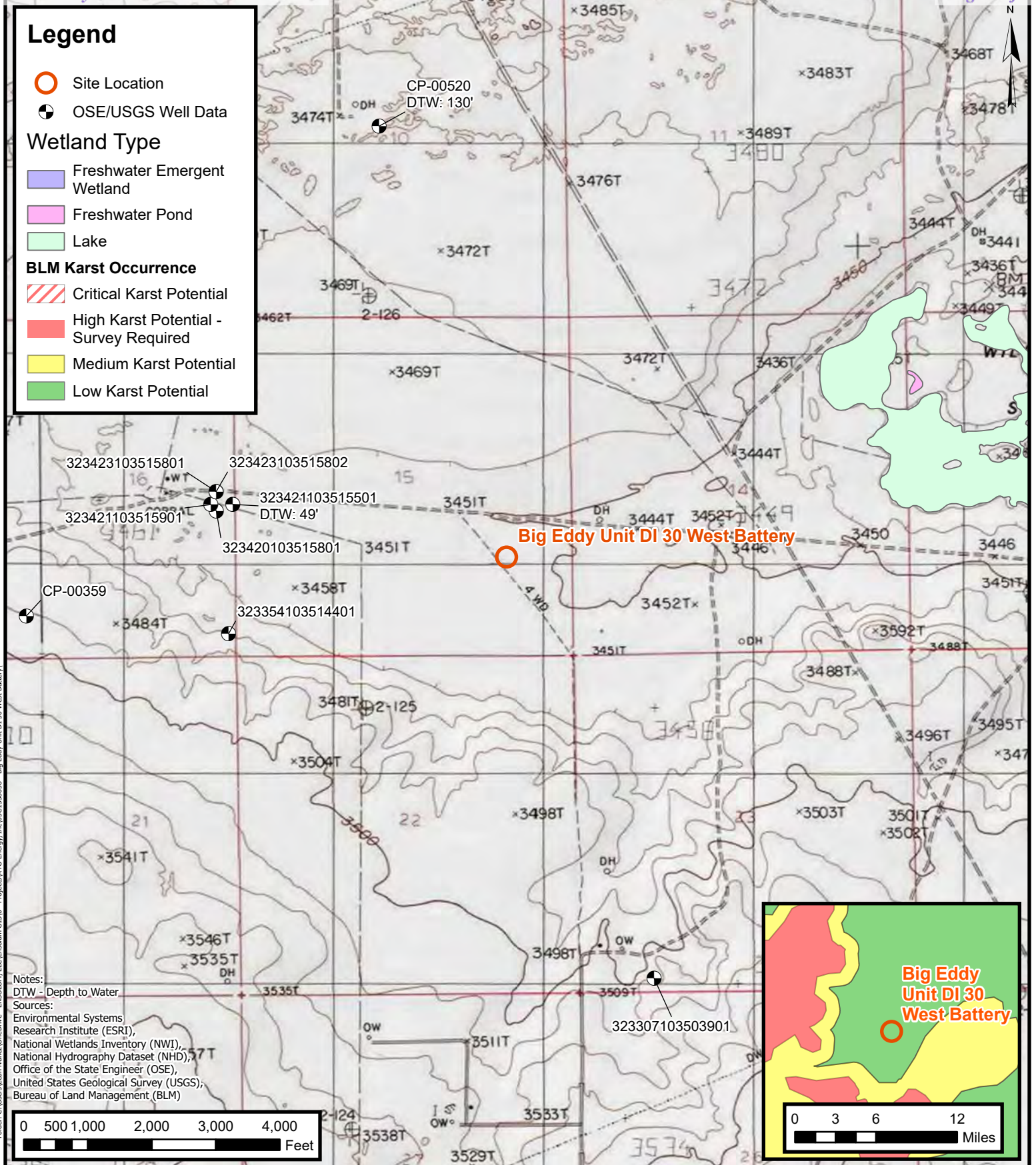
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Deferral Area Map
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





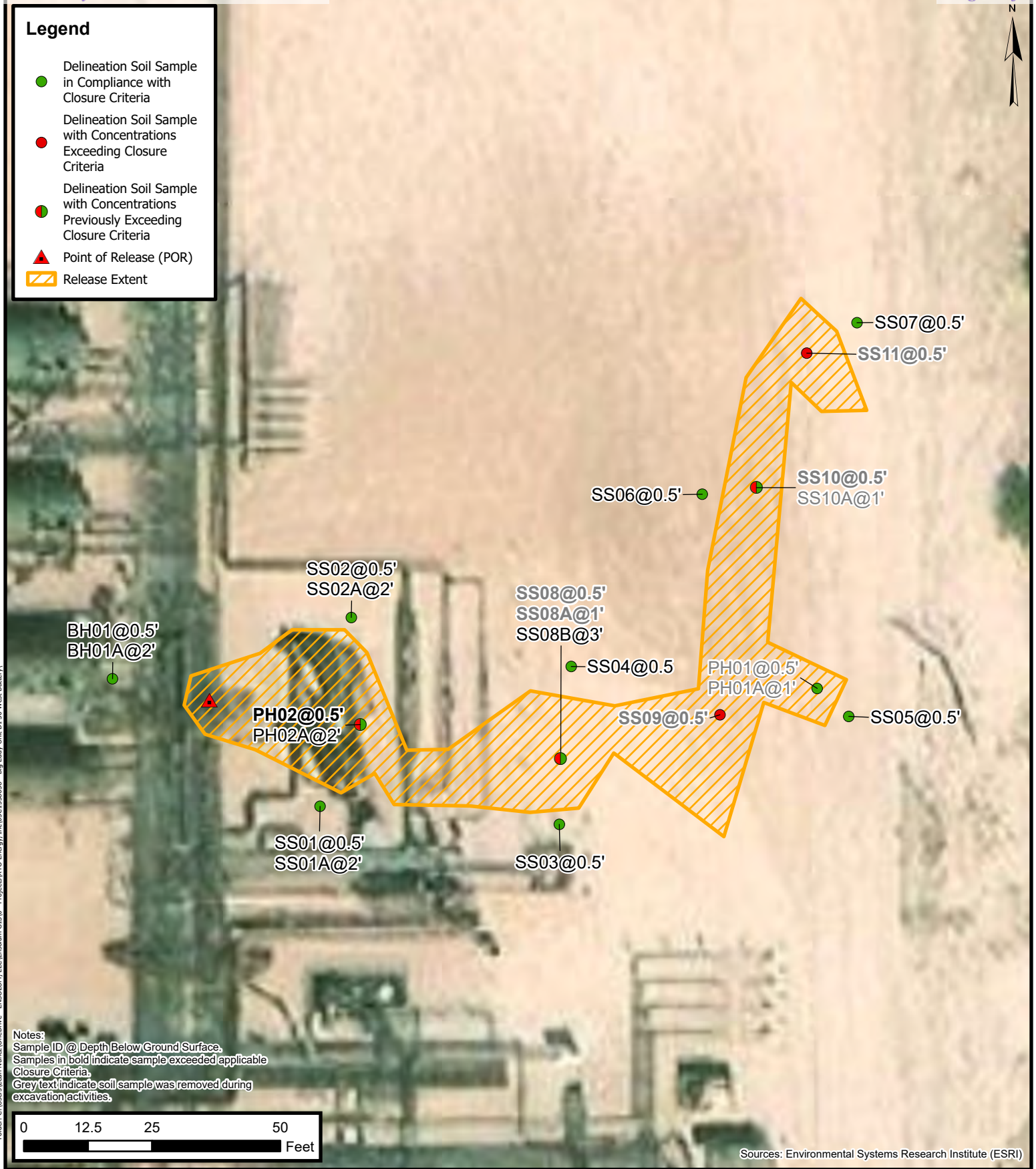
## Site Receptor Map

XTO Energy, Inc  
Big Eddy Unit DI 30 West Battery  
Incident Number: NAPP2510532038  
Unit I, Section 15, T 20S, R 31E  
Eddy County, New Mexico

**FIGURE**

**1**

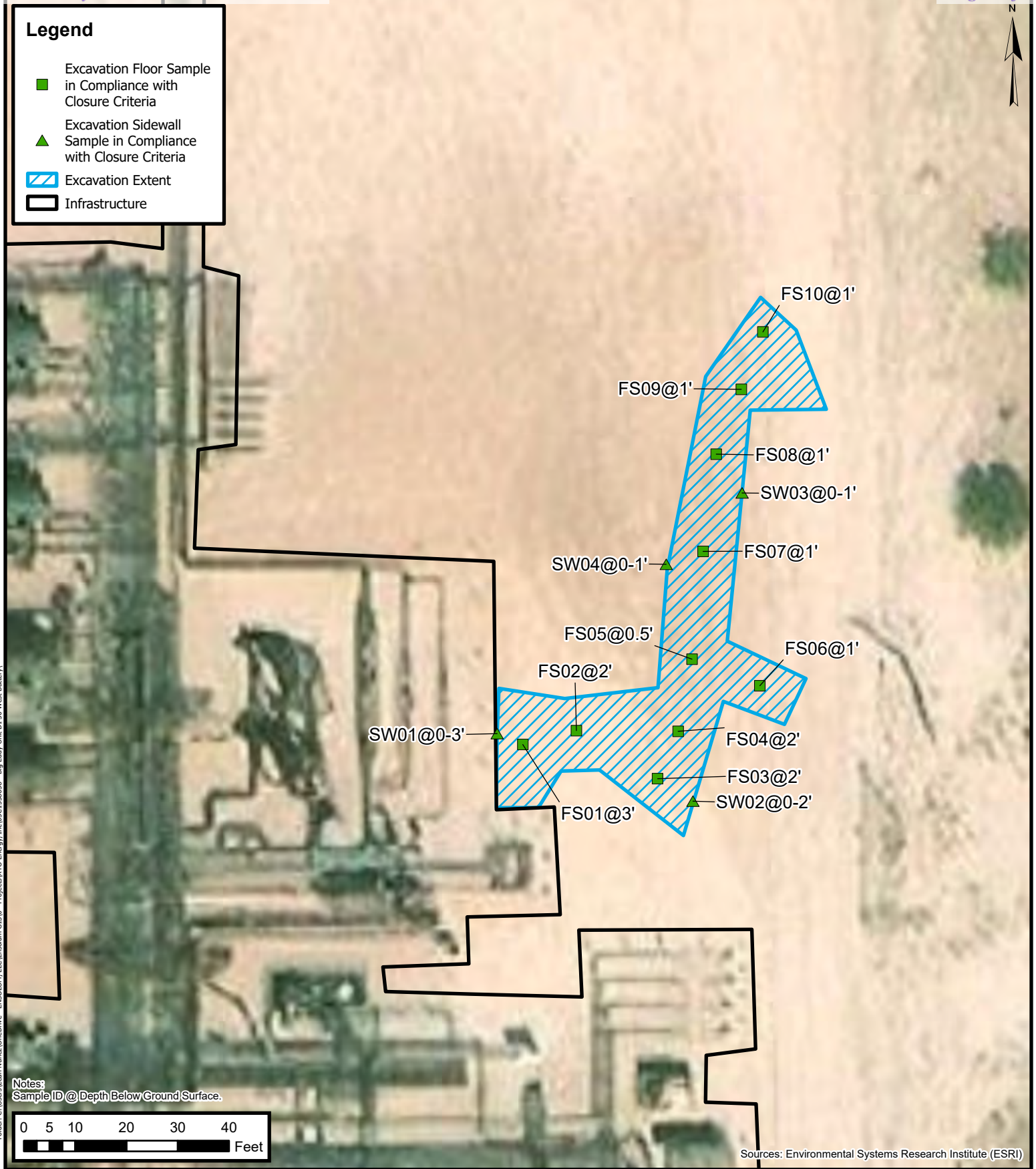




## Delineation Soil Sample Locations

XTO Energy, Inc  
Big Eddy Unit DI 30 West Battery  
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**FIGURE**  
**2**



## Excavation Soil Sample Locations

XTO Energy, Inc  
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**FIGURE**

**3**



**Legend**

- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point Features - Other
- ▨ Release Extent
- ▨ Deferral Area
- ▭ Infrastructure



BH01@0.5'  
BH01A@2'

SS02@0.5'  
SS02A@2'

**PH02@0.5'**  
**PH02A@2'**

SW01@0-3'

SS08B@3'

SS01@0.5'  
SS01A@2'

Notes:  
Sample ID @ Depth Below Ground Surface.  
Samples in bold indicate sample exceeded applicable Closure Criteria.

0 12.5 25 50  
Feet

Sources: Environmental Systems Research Institute (ESRI)

**Deferral Area Map**

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Unit I, Section 15, T 20S, R 31E  
Eddy County, New Mexico

**FIGURE****4**



TABLES

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Big Eddy Unit DI 30 West Battery  
 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	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS01A	05/09/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS02A	05/09/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS03	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS06	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SS07	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS08	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,400
SS08A	05/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000
SS08B	05/05/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SS09	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,400
SS10	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,060
SS10A	05/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS11	04/21/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,900
PH01	05/05/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH01A	05/05/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH02	05/08/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,880
PH02A	05/08/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
BH01	07/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
BH01A	07/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Confirmation Soil Samples										
FS01	05/08/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS02	05/08/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS03	05/08/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS04	05/08/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS05	05/08/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS06	05/08/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS07	05/09/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS08	05/09/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS09	05/09/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Big Eddy Unit DI 30 West Battery  
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
FS10	05/09/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW01	05/08/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SW02	05/08/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW03	05/09/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW04	05/09/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

---



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

GO

Click to hideNews Bulletins

- See the [Water Data for the Nation Blog](#) for the latest news and updates.

Groundwater levels for the Nation

**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 323421103515501

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 323421103515501 20S.31E.16.24334

Eddy County, New Mexico  
Latitude 32°34'21", Longitude 103°51'55" NAD27  
Land-surface elevation 3,459 feet above NAVD88  
The depth of the well is 106 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1971-02-02			D 62610		3394.97	NGVD29	1		Z	
1971-02-02			D 62611		3396.56	NAVD88	1		Z	
1971-02-02			D 72019	62.44			1		Z	
1972-09-18			D 62610		3395.41	NGVD29	1		Z	
1972-09-18			D 62611		3397.00	NAVD88	1		Z	
1972-09-18			D 72019	62.00			1		Z	
1976-12-14			D 62610		3396.45	NGVD29	1		Z	
1976-12-14			D 62611		3398.04	NAVD88	1		Z	
1976-12-14			D 72019	60.96			1		Z	
1983-02-14			D 62610		3398.65	NGVD29	1		Z	
1983-02-14			D 62611		3400.24	NAVD88	1		Z	
1983-02-14			D 72019	58.76			1		Z	
1984-02-16			D 62610		3399.44	NGVD29	1		Z	
1984-02-16			D 62611		3401.03	NAVD88	1		Z	
1984-02-16			D 72019	57.97			1		Z	
1986-01-22			D 62610		3401.73	NGVD29	1		Z	
1986-01-22			D 62611		3403.32	NAVD88	1		Z	
1986-01-22			D 72019	55.68			1		Z	



Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1994-03-02			D	62610	3408.33	NGVD29	1		S	
1994-03-02			D	62611	3409.92	NAVD88	1		S	
1994-03-02			D	72019	49.08		1		S	

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)  
[Feedback on this web site](#)  
[Automated retrievals](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)  
[Subscribe for system changes](#)  
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[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for USA: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels>**



Page Contact Information: [USGS Water Data Support Team](#)  
Page Last Modified: 2022-12-19 13:43:55 EST  
0.28   0.24   nadww02



## APPENDIX B

### Photographic Log

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# Photographic Log

XTO Energy, Inc.

Big Eddy Unit DI 30 West Battery

Incident Number NAPP2510532038



Photograph: 1 Date: 4/14/2025  
Description: Release extent, near process piping.  
View: Southwest



Photograph: 2 Date: 4/14/2025  
Description: Release area, spill response.  
View: Northwest



Photograph: 3 Date: 5/8/2025  
Description: Deferral area, PH02.  
View: North



Photograph: 4 Date: 5/8/2025  
Description: Excavation activities.  
View: Southwest





### Photographic Log

XTO Energy, Inc.

Big Eddy Unit DI 30 West Battery  
Incident Number NAPP2510532038

Date & Time: Fri, May 08, 2025 at 14:01:52 MDT  
Position: 32.570300°N, 103.851244°W (-136.0ft)  
Altitude: 3456ft (=9.8ft)  
Datum: WGS-84  
Azimuth/Bearing: 182° S32W 222mils True (+12°)  
Elevation Angle: -02.3°  
Horizon Angle: +00.1°  
Zoom: 1.0X  
Beu DI30



Photograph: 5 Date: 5/8/2025  
Description: Final excavation extent area  
View: South

Date & Time: Fri, May 08, 2025 at 14:04:38 MDT  
Position: 32.570300°N, 103.851317°W (-136.4ft)  
Altitude: 3451ft (=9.8ft)  
Datum: WGS-84  
Azimuth/Bearing: 332° N28W 5902mils True (+12°)  
Elevation Angle: -02.9°  
Horizon Angle: +02.3°  
Zoom: 1.0X  
Beu DI30



Photograph: 6 Date: 5/8/2025  
Description: Final excavation extent area  
View: North



Photograph: 7 Date: 7/7/2025  
Description: Backfilled excavation  
View: Southwest




Photograph: 8 Date: 7/25/2025  
Description: Delineation activities, BH01  
View: East




## APPENDIX C


### Lithologic Soil Sampling Logs


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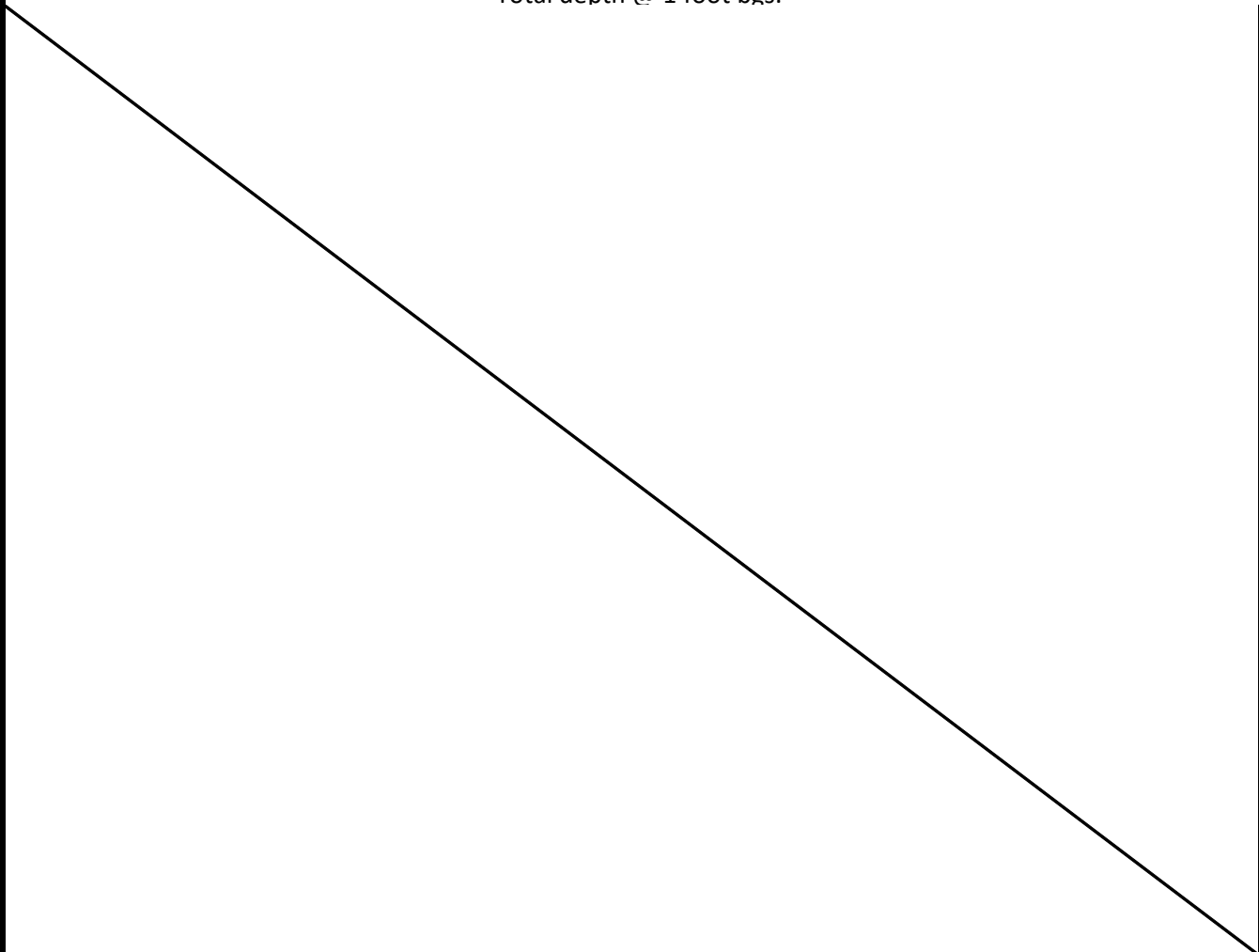
								Sample Name: SS01		Date: 5/9/2025	
								Site Name: Big Eddy Unit DI 30 West Battery			
								Incident Number: NAPP2510532038			
								Job Number: 03C1558658			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Connor Whitman		Method: Hand Auger	
Coordinates: 32.570218, -103.852011								Hole Diameter: 3.5"		Total Depth: 2' bgs	
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 for all chloride screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	<168	0.8	N	SS01	0.5	0	CCHE	0-2' CALICHE, light brown, very fine grained, poorly graded, medium consolidation; with very fine, light brown sand, poorly graded. No Stain or odor.			
M	<168	0.0	N		1	1					
M	<168	0.0	N	SS01A	2	2	SP	2' SAND, brown, very fine grained, poorly graded, with some very fine, brown silt. No Stain or odor.			
Total Depth @ 2' bgs.											
<div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></div>											




 <b>ENSOLUM</b>		Sample Name: SS02		Date: 5/9/2025				
		Site Name: Big Eddy Unit DI 30 West Battery						
		Incident Number: NAPP2510532038						
		Job Number: 03C1558658						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.570319, -103.851990			Logged By: Connor Whitman		Method: Hand Auger			
			Hole Diameter: 3.5"		Total Depth: 2' bgs			
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 for all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	0.7	N	SS02	0.5	0	CCHE	0-2' CALICHE, light brown, very fine grained, poorly graded, medium consolidation; with very fine, light brown sand, poorly graded. No Stain or odor.
M	<168	0.0	N		1	1		
M	<168	0.0	N	SS02A	2	2	SP	2' SAND, brown, very fine grained, poorly graded, with some very fine, brown silt. No Stain or odor.
						Total Depth @ 2' bgs.		


 <b>ENSOLUM</b>		Sample Name: SS08		Date: 5/5/2025				
		Site Name: Big Eddy Unit DI 30 West Battery						
		Incident Number: NAPP2510532038						
		Job Number: 03C1558658						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.570243, -103.851855			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: 3'		Total Depth: 3' bgs			
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 for all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	25,642	0.4	Y	SS08	0.5	0	CCHE	0-1.5' CALICHE, light brown, very fine grained, poorly graded, medium consolidation; with very fine, light brown sand, poorly graded. No odor, visible staining and light chloride crust.
M	12,768	0.0	N	SS08A	1	1		
M	2167	0	N		2	2	SP	1.5-3' SAND, brown, very fine grained, poorly graded, with some very fine, brown silt. No Stain or odor.
M	<168	0.0	N	SS08B	3	3		
Total Depth @ 3 feet bgs.								

 <b>ENSOLUM</b>		Sample Name: SS10		Date: 5/5/2025				
		Site Name: Big Eddy Unit DI 30 West Battery						
		Incident Number: NAPP2510532038						
		Job Number: 03C1558658						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.570386, -103.851733			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: 3'		Total Depth: 1' bgs			
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 for all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	19,258	0.6	Y	SS10	0.5	0	CCHE	0-1' CALICHE, light brown, very fine grained, poorly graded, medium consolidation; with very fine, light brown sand, poorly graded. No odor, visible staining and light chloride crust.
M	<168	0.0	N	SS10A	1	1	SP	1' SAND, brown, very fine grained, poorly graded, with some very fine, brown silt. No Stain or odor.
						Total depth @ 1 foot bgs.		

 <b>ENSOLUM</b>		Sample Name: PH01		Date: 5/5/2025				
		Site Name: Big Eddy Unit DI 30 West Battery						
		Incident Number: NAPP2510532038						
		Job Number: 03C1558658						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.570278, -103.851696			Logged By: Connor Whitman		Method: Backhoe			
			Hole Diameter: 3'		Total Depth: 1' bgs			
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 for all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	476	0.0	Y	PH01	0.5	0	CCHE	0-1' CALICHE, light brown, very fine grained, poorly graded, medium consolidation; with very fine, light brown sand, poorly graded. No odor, visible staining and light chloride crust.
M	207	0.0	N	PH01A	1	1	SP	1' SAND, brown, very fine grained, poorly graded, with some very fine, brown silt. No Stain or odor.
						Total depth @ 1 foot bgs.		
								



 <b>ENSOLUM</b>		Sample Name: PH02		Date: 5/8/2025				
		Site Name: Big Eddy Unit DI 30 West Battery						
		Incident Number: NAPP2510532038						
		Job Number: 03C1558658						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.570262, -103.851984			Logged By: Connor Whitman		Method: Hand Auger			
			Hole Diameter: 3.5"		Total Depth: 2' bgs			
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 for all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	8,601	0.0	Y	PH02	0.5	0	CCHE	0-2' CALICHE, light brown, very fine grained, poorly graded, medium consolidation; with very fine, light brown sand, poorly graded. No odor, visible staining and light chloride crust.
M	7,952	0.0	N		1	1		
M	<168	0.0	N	PH02A	2	2	SP	2' SAND, brown, very fine grained, poorly graded, with some very fine, brown silt. No Stain or odor.
						Total Depth @ 2' bgs.		

 <b>ENSOLUM</b>		Sample Name: BH01		Date: 7/25/2025				
		Site Name: Big Eddy Unit DI 30 West Battery						
		Incident Number: NAPP2510532038						
		Job Number: 03C1558658						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.570290, -103.852144			Logged By: Connor Whitman		Method: Hand Auger			
			Hole Diameter: 3.5"		Total Depth: 2' bgs			
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 for all chloride screenings.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<168	0.2	Y	BH01	0.5	0	CCHE	0-2' CALICHE, light brown, very fine grained, poorly sorted, medium consolidation; with very fine, light brown sand, poorly graded. No odor, visible staining and light chloride crust.
M	<168	0.0	N		1	1		
M	<168	0.0	N	BH01A	2	2	SP	2' SAND, brown, very fine grained, poorly sorted, with some very fine, brown silt. No Stain or odor.
						Total Depth @ 2' bgs.		



## APPENDIX D

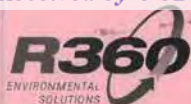
### Soil Disposal Manifests

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## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact information



(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name                     Phone No.                     **GENERATOR**NO. **HW-762194**Generator Manifest #                     Location of Origin                     Generator Name X T OLease/Well                     Address                     Name & No.                     City, State, Zip                     County                     Phone No.                     API No.                     Rig Name & No.                     AFE/PO No.                     **EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms		
E&P Contaminated Soil	<b>INTERNAL USE ONLY</b>	<b>TOP SOIL &amp; CALICHE SALES</b>
Gas Plant Waste	Truck Washout (exempt waste) YES <input type="checkbox"/> NO <input type="checkbox"/>	QUANTITY <u>                    </u> TOP SOIL <u>                    </u> CALICHE <u>                    </u>

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other                      \*please select from **Non-Exempt Waste List on back**

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ **RCRA NON-EXEMPT:** Oil field 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)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

**TRANSPORTER**Transporter's Name                     Driver's Name                     Address                     Print Name                     Phone No.                     Phone No.                     Transporter Ticket #                     Truck No.                     

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

**TRUCK TIME STAMP**IN:                      OUT:                     **DISPOSAL FACILITY****RECEIVING AREA**Name/No. 88

Site Name/ Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☒

PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☒

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒**TANK BOTTOMS**

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge				
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name 800 972 15Phone No. 505 775 74

## GENERATOR

NO. **HW-762199**

Generator Manifest # \_\_\_\_\_

Generator Name Y10

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. Red 2-430 CT 10

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name & No. P/A

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS			
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____				
Water Based Muds	_____		Produced Water (Non-Injectable)	_____				
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____				
Produced Formation Solids	_____			_____				
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES					
E&P Contaminated Soil	_____		Truck Washout (exempt waste)	YES	NO	QUANTITY	TOP SOIL	CALICHE
Gas Plant Waste	_____							

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field 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)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name \_\_\_\_\_

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name \_\_\_\_\_

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 209

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. \_\_\_\_\_

 Site Name/ Permit No. Halfway Facility / NM1-006  
 Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220
Phone No. 575-392-6368NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☒ NO ☐

## TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED ☒ DENIED ☐ If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent R. 12Phone No. 575-98-418

## GENERATOR

NO. HW-762198

Generator Manifest # \_\_\_\_\_

Location of Origin \_\_\_\_\_

Generator Name X TOLease/Well Name & No. B-10 2: -30 CT BF

Address \_\_\_\_\_

County \_\_\_\_\_

City, State, Zip \_\_\_\_\_

API No. \_\_\_\_\_

Phone No. \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	_____
Gas Plant Waste	_____			TOP SOIL	CALICHE

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name LA BODEGADriver's Name Jesús MirelesAddress Halo Service Inc

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 409

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE 5-22-25

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/ Permit No. Halfway Facility / NM1-006Phone No. 575-392-6368Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220NORM READINGS TAKEN? (Circle One) YES    NO     
PASS THE PAINT FILTER TEST? (Circle One) YES    NO   If YES, was reading > 50 micro roentgens? (Circle One) YES    NO   

## TANK BOTTOMS

1st Gauge	Feet _____	Inches _____	BS&W/BBLs Received	_____	BS&W (%)	_____
2nd Gauge	_____	_____	Free Water	_____		
Received	_____	_____	Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED    DENIED    If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_



## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information



(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-762200**

Generator Manifest # \_\_\_\_\_

Location of Origin \_\_\_\_\_

Generator Name X to

Lease/Well \_\_\_\_\_

Name & No. B-U d9-30 CT 80

Address \_\_\_\_\_

County \_\_\_\_\_

API No. \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

Phone No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	<u>Belly dumps</u>
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____	
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	
Tank Bottoms _____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES
E&P Contaminated Soil _____	Truck Washout (exempt waste) YES _____ NO _____	QUANTITY <u>20 YARDS</u> TOP SOIL _____ CALICHE _____
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

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- ☐ RCRA NON-EXEMPT: Oil field 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)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name 119 Roadman Driver's Name Marian Ubgo

Address 1190 Service Inc Print Name \_\_\_\_\_

Phone No. 575-392-6368 Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_ Truck No. L-00

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006 Phone No. 575-392-6368

Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

NORM READINGS TAKEN? (Circle One) YES ☐ NO ☐

PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☐

If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐

## TANK BOTTOMS

	Feet	Inches	BS&W/BLS Received	BS&W (%)
1st Gauge				
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED 5/22/05

DENIED \_\_\_\_\_

If denied, why? ApNAME (PRINT) Alejandro P

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name KentPhone No. 912

## GENERATOR

NO. **HW-762196**

Generator Manifest # \_\_\_\_\_

Location of Origin \_\_\_\_\_

Generator Name X70

Lease/Well \_\_\_\_\_

Name & No. DEV 19-30 TAE

Address \_\_\_\_\_

County \_\_\_\_\_

API No. \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

Phone No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS <u>Belly dumps</u>	
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Muds	_____		Produced Water (Non-Injectable)	_____		
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____		
Produced Formation Solids	_____	INTERNAL USE ONLY			TOP SOIL & CALICHE SALES	
Tank Bottoms	_____		Truck Washout (exempt waste)	YES		NO
E&P Contaminated Soil	_____		QUANTITY	<u>20 Yards</u>	TOP SOIL	CALICHE
Gas Plant Waste	_____					

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field 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)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name to be doneDriver's Name BlumenfeldAddress Hwy 10 Service Inc

Print Name \_\_\_\_\_

Phone No. 505 928 7336

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 108

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE 5-29-25

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/ Permit No.	<u>Halfway Facility / NM1-006</u>	Phone No.	<u>575-392-6368</u>
Address	<u>6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220</u>		

NORM READINGS TAKEN? (Circle One)	YES	NO
PASS THE PAINT FILTER TEST? (Circle One)	YES	NO

If YES, was reading &gt; 50 micro roentgens? (Circle One) YES NO

## TANK BOTTOMS

1st Gauge	Feet	Inches	BS&W/BBLS Received	BS&W (%)
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT) Alexander PDATE 5/29/25TITLE ADMSIGNATURE Ap





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent

Phone No. \_\_\_\_\_

## GENERATOR

NO. **HW-762195**

Generator Manifest # \_\_\_\_\_

Generator Name XTO

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. Bee 114 - CTB

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS			
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____				
Water Based Muds	_____		Produced Water (Non-Injectable)	_____				
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____				
Produced Formation Solids	_____							
Tank Bottoms	_____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES					
E&P Contaminated Soil	_____		Truck Washout (exempt waste)	YES	NO	QUANTITY	TOP SOIL	CALICHE
Gas Plant Waste	_____							

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field 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)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's

Name LA LodgeAddress Holt Service CoPhone No. 975 988 1338

Transporter Ticket # \_\_\_\_\_

Driver's Name

Print Name

Phone No.

Truck No. 108

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

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

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

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 28

Site Name/

Permit No.

Address

**Halfway Facility / NM1-006****6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220**

Phone No.

**575-392-6368**

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (Circle One)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

## TANK BOTTOMS

1st Gauge

2nd Gauge

Received

Feet

Inches

BS&amp;W/BLS Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kenil 1212Phone No. 575-988-1189

## GENERATOR

NO. HW-762561

Generator Manifest # \_\_\_\_\_

Generator Name Xto

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Location of Origin

Lease/Well

Name & No. REV D9-30 rt13e

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name & No. 1714

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_

Oil Based Cuttings \_\_\_\_\_

Water Based Muds \_\_\_\_\_

Water Based Cuttings \_\_\_\_\_

Produced Formation Solids \_\_\_\_\_

Tank Bottoms \_\_\_\_\_

E&P Contaminated Soil ☒

Gas Plant Waste \_\_\_\_\_

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable) \_\_\_\_\_

Completion Fluid/Flow Back (Non-Injectable) \_\_\_\_\_

Produced Water (Non-Injectable) \_\_\_\_\_

Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_

## OTHER EXEMPT E&amp;P WASTE STREAMS

Belly Dumps

## INTERNAL USE ONLY

Truck Washout (exempt waste)

YES ☒NO ☐

## TOP SOIL &amp; CALICHE SALES

QUANTITY \_\_\_\_\_

TOP SOIL \_\_\_\_\_

CALICHE \_\_\_\_\_

WASTE GENERATION PROCESS:

☐

DRILLING

☐

COMPLETION

☐

PRODUCTION

☐

GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY

B - BARRELS

L - LIQUID

Y - YARDS 20

E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field 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)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's

Name La BodegaAddress Harjo Service

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Driver's Name Manuel Vargas

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. L-08

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE 05-23-25

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

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

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

Name/No. 20

Site Name/

Permit No. Halfway Facility / NM1-006Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One)

YES ☒NO ☐

If YES, was reading &gt; 50 micro roentgens? (Circle One)

YES ☐NO ☒

PASS THE PAINT FILTER TEST? (Circle One)

YES ☒NO ☐

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLS Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED ☒DENIED ☐

If denied, why? \_\_\_\_\_

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_





## NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Kent VeltzPhone No. 575 988 4189

## GENERATOR

NO. **HW-762542**

Generator Manifest # \_\_\_\_\_

Location of Origin \_\_\_\_\_

Generator Name XTO

Lease/Well \_\_\_\_\_

Address \_\_\_\_\_

Name & No. Beu 1 - 30 CTBL

City, State, Zip \_\_\_\_\_

County \_\_\_\_\_

Phone No. \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO _____	QUANTITY	TOP SOIL CALICHE
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below threshold limits for toxicity (TCPL), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field 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)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ 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 the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name LA BODEGADriver's Name Josue M. VelazquezAddress Halo Service Inc

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Phone No. \_\_\_\_\_

Transporter Ticket # \_\_\_\_\_

Truck No. 109

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 28Site Name/ Permit No. Halfway Facility / NM1-006Phone No. 575-392-6368Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☐PASS THE PAINT FILTER TEST? (Circle One) YES ☐ NO ☐

## TANK BOTTOMS

1st Gauge	Feet _____ Inches _____	BS&W/BBLs Received	_____	BS&W (%)	_____
2nd Gauge	_____	Free Water	_____		
Received	_____	Total Received	_____		

I hereby certify that the above load material has been (circle one)

ACCEPTED APDENIED APIf denied, why? AP

NAME (PRINT)

DATE

TITLE

SIGNATURE



## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

---





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

April 24, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT DI 30 WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/22/25 13:53.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 01 0.5 (H252395-01)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04	
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49	
Total BTX	<0.300	0.300	04/23/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 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  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 02 0.5 (H252395-02)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEX	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 03 0.5 (H252395-03)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEX	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.6 % 40.6-153

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 04 0.5 (H252395-04)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEX	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 05 0.5 (H252395-05)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEX	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 06 0.5 (H252395-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEx	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 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  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 07 0.5 (H252395-07)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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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

Project Manager: Ben Bell

Address: 601 N Marientfield Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: (484) 854-0852 Fax #:

Project #: 03 C1558658 Project Owner: XTO Energy

Project Name: Big Edm Unit U I 30 West Pads

Project Location: 32.570270, -103.852058

Sampler Name: Trevor Hargo

BILL TO		ANALYSIS REQUEST			
P.O. #:	Company: XTO Energy, Inc	TPH 8015	BTEX 8021	Chloride 4500	
Attn: Colton Brown	Address: 3104 E Greene St				
City: Carlsbad	State: NM Zip: 88220				
Phone #:	Fax #:				

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500						
	1	5501	0.5		1	GROUNDWATER			4/22/25	8:50									
	2	5502				WASTEWATER				8:53									
	3	5503				SOIL				9:00									
	4	5504				OIL				9:05									
	5	5505				SLUDGE				9:14									
	6	5506				OTHER :				9:21									
	7	5507				ACID/BASE:				9:27									
						ICE / COOL													
						OTHER :													

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Relinquished By: Date: 4/22/25 Time: 13:53 Received By: Date: 4/22/25 Time: 15:53

Relinquished By: Trevor Hargo Received By: [Signature]

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

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



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

April 24, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT DI 30 WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/22/25 13:53.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 08 0.5' (H252396-01)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04	
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49	
Total BTEX	<0.300	0.300	04/23/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	04/23/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 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  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 09 0.5' (H252396-02)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 10 0.5' (H252396-03)**

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	04/23/2025	ND	1.99	99.5	2.00	3.04		
Toluene*	<0.050	0.050	04/23/2025	ND	2.03	101	2.00	3.90		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	1.99	99.4	2.00	4.37		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	5.83	97.2	6.00	4.49		
Total BTEx	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	206	103	200	0.0403	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	206	103	200	4.56	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 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  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/22/2025  
 Reported: 04/24/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

Sampling Date: 04/21/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 11 0.5' (H252396-04)**

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	04/23/2025	ND	2.27	113	2.00	6.75		
Toluene*	<0.050	0.050	04/23/2025	ND	2.15	108	2.00	6.36		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.17	108	2.00	7.43		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	6.74	112	6.00	8.29		
Total BTEx	<0.300	0.300	04/23/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11900	16.0	04/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2025	ND	232	116	200	7.33	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.0 % 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

[illegible]



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May 08, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BIG EDDY UNIT DI 30 WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/06/25 14:03.

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

Received: 05/06/2025  
 Reported: 05/08/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

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

**Sample ID: SS 08A 1' (H252687-01)**

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	05/06/2025	ND	2.05	103	2.00	1.42	
Toluene*	<0.050	0.050	05/06/2025	ND	2.01	101	2.00	1.10	
Ethylbenzene*	<0.050	0.050	05/06/2025	ND	1.97	98.7	2.00	1.22	
Total Xylenes*	<0.150	0.150	05/06/2025	ND	6.13	102	6.00	1.87	
Total BTX	<0.300	0.300	05/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	05/07/2025	ND	448	112	400	7.41		

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	05/07/2025	ND	182	91.2	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/07/2025	ND	178	88.8	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	05/07/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 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  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 05/06/2025  
 Reported: 05/08/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

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

**Sample ID: SS 08B 3' (H252687-02)**

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	05/06/2025	ND	2.05	103	2.00	1.42		
Toluene*	<0.050	0.050	05/06/2025	ND	2.01	101	2.00	1.10		
Ethylbenzene*	<0.050	0.050	05/06/2025	ND	1.97	98.7	2.00	1.22		
Total Xylenes*	<0.150	0.150	05/06/2025	ND	6.13	102	6.00	1.87		
Total BTEX	<0.300	0.300	05/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/07/2025	ND	448	112	400	7.41		

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	05/07/2025	ND	182	91.2	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/07/2025	ND	178	88.8	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	05/07/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/06/2025  
 Reported: 05/08/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

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

**Sample ID: SS 10A 1' (H252687-03)**

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	05/06/2025	ND	2.05	103	2.00	1.42		
Toluene*	<0.050	0.050	05/06/2025	ND	2.01	101	2.00	1.10		
Ethylbenzene*	<0.050	0.050	05/06/2025	ND	1.97	98.7	2.00	1.22		
Total Xylenes*	<0.150	0.150	05/06/2025	ND	6.13	102	6.00	1.87		
Total BTEx	<0.300	0.300	05/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/07/2025	ND	400	100	400	3.92	

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	05/07/2025	ND	182	91.2	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/07/2025	ND	178	88.8	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	05/07/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/06/2025  
 Reported: 05/08/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

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

**Sample ID: PH 01 0.5' (H252687-04)**

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	05/06/2025	ND	2.05	103	2.00	1.42		
Toluene*	<0.050	0.050	05/06/2025	ND	2.01	101	2.00	1.10		
Ethylbenzene*	<0.050	0.050	05/06/2025	ND	1.97	98.7	2.00	1.22		
Total Xylenes*	<0.150	0.150	05/06/2025	ND	6.13	102	6.00	1.87		
Total BTEX	<0.300	0.300	05/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/07/2025	ND	400	100	400	3.92		

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	05/07/2025	ND	182	91.2	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/07/2025	ND	178	88.8	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	05/07/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/06/2025  
 Reported: 05/08/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558658  
 Project Location: XTO 32.570270, -103.852058

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

**Sample ID: PH 01A 1' (H252687-05)**

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	05/06/2025	ND	2.05	103	2.00	1.42		
Toluene*	<0.050	0.050	05/06/2025	ND	2.01	101	2.00	1.10		
Ethylbenzene*	<0.050	0.050	05/06/2025	ND	1.97	98.7	2.00	1.22		
Total Xylenes*	<0.150	0.150	05/06/2025	ND	6.13	102	6.00	1.87		
Total BTEx	<0.300	0.300	05/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/07/2025	ND	400	100	400	3.92	

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	05/07/2025	ND	182	91.2	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/07/2025	ND	178	88.8	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	05/07/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 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

A-01	ECCV failed high biased. All samples below reporting limit
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".

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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

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Ben Beill <b>Address:</b> 3122 National Parks Hwy <b>City:</b> Carlsbad <b>Phone #:</b> 337 257-8307 <b>Project #:</b> 03C1558658 <b>Project Name:</b> Big Eddy Unit D1 30 West Battery <b>Project Location:</b>		<b>P.O. #:</b> <b>Company:</b> XTO Energy Inc. <b>Attn:</b> Colton Brown <b>Address:</b> 3104 E. Green St. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> <b>Fax #:</b>	
<b>State:</b> NM <b>zip:</b> 88220 <b>City:</b> Carlsbad <b>Project Owner:</b> XTO <b>Project Name:</b> Big Eddy Unit D1 30 West Battery <b>Project Location:</b>		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>	
<b>Sample Name:</b> Connor Whitman <b>FOR LAB USE ONLY</b>		<b>MATRIX</b> <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <input checked="" type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :	
<b>Sample I.D.</b> HES2687 1 5508A 2 5508B 3 CS10A 4 PHOI 5 PHOLA		<b>Sample Depth (feet)</b> 1 3 1 0.5 1	
<b>Lab I.D.</b>		<b>DATE</b> 5-5-25 <b>TIME</b> 845 900 915 940 945	
<b>Sample I.D.</b>		<b>BTEX</b> <b>TPH</b> <b>CHLORIDE</b>	
<b>Relinquished By:</b> Date: 5-6-25 Time: 1403 Received By: [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>	
<b>Relinquished By:</b> Date: 5-6-25 Time: 1403 Received By: [Signature]		<b>REMARKS:</b> Cost Center: 2096141001 Incident ID: NAPP2510532038 GCFM: 48605000 BBeill@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> -0.0 <b>Corrected Temp. °C</b> -0.0	
<b>Sample Condition</b> <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Thermometer ID: 413 <input checked="" type="checkbox"/> Cool Intact Correction Factor: 0.0 <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: 14.8 <input type="checkbox"/> Corrected Temp. °C: 14.8	

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





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

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May 14, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BIG EDDY UNIT DI 30 WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/13/25 13:40.

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

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 01 3 (H252835-01)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.2 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 05/13/2025  
Reported: 05/14/2025  
Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
Project Number: 03C1558598  
Project Location: XTO

Sampling Date: 05/08/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS 02 2 (H252835-02)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	192	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 03 2 (H252835-03)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 04 2 (H252835-04)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.5 % 40.6-153

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

Received: 05/13/2025  
Reported: 05/14/2025  
Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
Project Number: 03C1558598  
Project Location: XTO

Sampling Date: 05/08/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SW 01 0-3 (H252835-05)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	320	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.2 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SW 02 0-2 (H252835-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: PH 02 0.5 (H252835-07)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	8880	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.8 % 40.6-153

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

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: PH 02A 2 (H252835-08)**

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	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	05/14/2025	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/13/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 05 0.5 (H252835-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/13/2025  
Reported: 05/14/2025  
Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
Project Number: 03C1558598  
Project Location: XTO

Sampling Date: 05/08/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS 06 1 (H252835-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/13/2025  
Reported: 05/14/2025  
Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
Project Number: 03C1558598  
Project Location: XTO

Sampling Date: 05/09/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS 07 1 (H252835-11)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/13/2025	Sampling Date:	05/09/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: FS 08 1 (H252835-12)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/14/2025	ND	448	112	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	05/14/2025	ND	214	107	200	0.326	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	202	101	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/13/2025  
 Reported: 05/14/2025  
 Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
 Project Number: 03C1558598  
 Project Location: XTO

Sampling Date: 05/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 09 1 (H252835-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 123 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/13/2025  
Reported: 05/14/2025  
Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
Project Number: 03C1558598  
Project Location: XTO

Sampling Date: 05/09/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: FS 10 1 (H252835-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 124 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/13/2025	Sampling Date:	05/09/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SW 03 0-1 (H252835-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 120 % 44.4-145

Surrogate: 1-Chlorooctadecane 125 % 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  
BEN BELILL  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	05/13/2025	Sampling Date:	05/09/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SW 04 0-1 (H252835-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.75	87.4	2.00	5.30		
Toluene*	<0.050	0.050	05/13/2025	ND	2.02	101	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.15	108	2.00	3.23		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.47	108	6.00	3.41		
Total BTEx	<0.300	0.300	05/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 124 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/13/2025  
Reported: 05/14/2025  
Project Name: BIG EDDY UNIT DI 30 WEST BATTERY  
Project Number: 03C1558598  
Project Location: XTO

Sampling Date: 05/09/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Alyssa Parras

**Sample ID: SS 01A 2 (H252835-17)**

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	05/13/2025	ND	1.58	79.1	2.00	7.23		
Toluene*	<0.050	0.050	05/13/2025	ND	1.91	95.6	2.00	5.67		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.06	103	2.00	4.37		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.36	106	6.00	3.93		
Total BTX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 123 % 44.4-145

Surrogate: 1-Chlorooctadecane 126 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/13/2025	Sampling Date:	05/09/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT DI 30 WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558598	Sample Received By:	Alyssa Parras
Project Location:	XTO		

**Sample ID: SS 02A 2 (H252835-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2025	ND	1.58	79.1	2.00	7.23		
Toluene*	<0.050	0.050	05/13/2025	ND	1.91	95.6	2.00	5.67		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.06	103	2.00	4.37		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.36	106	6.00	3.93		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/14/2025	ND	448	112	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	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
A-01	CCV failed high biased. All samples ND.
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 "C. D. Keene", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2





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

2 of 2

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

July 29, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: BEU DI 30

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 11:36.

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

Received: 07/25/2025  
Reported: 07/29/2025  
Project Name: BEU DI 30  
Project Number: 03C1558C58  
Project Location: NONE GIVEN

Sampling Date: 07/25/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH 01 0.5' (H254536-01)**

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	07/28/2025	ND	1.67	83.6	2.00	9.57	
Toluene*	<0.050	0.050	07/28/2025	ND	1.77	88.5	2.00	8.88	
Ethylbenzene*	<0.050	0.050	07/28/2025	ND	1.77	88.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	07/28/2025	ND	5.19	86.5	6.00	8.11	
Total BTX	<0.300	0.300	07/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/28/2025	ND	448	112	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	07/28/2025	ND	210	105	200	1.87	
DRO >C10-C28*	<10.0	10.0	07/28/2025	ND	191	95.7	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/28/2025	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/25/2025  
 Reported: 07/29/2025  
 Project Name: BEU DI 30  
 Project Number: 03C1558C58  
 Project Location: NONE GIVEN

Sampling Date: 07/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 01A 2' (H254536-02)**

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	07/28/2025	ND	1.67	83.6	2.00	9.57		
Toluene*	<0.050	0.050	07/28/2025	ND	1.77	88.5	2.00	8.88		
Ethylbenzene*	<0.050	0.050	07/28/2025	ND	1.77	88.6	2.00	7.90		
Total Xylenes*	<0.150	0.150	07/28/2025	ND	5.19	86.5	6.00	8.11		
Total BTEx	<0.300	0.300	07/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/28/2025	ND	448	112	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	07/28/2025	ND	210	105	200	1.87	
DRO >C10-C28*	<10.0	10.0	07/28/2025	ND	191	95.7	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/28/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager





**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 5 of 5

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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 510105

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 510105
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2510532038
Incident Name	NAPP2510532038 BIG EDDY UNIT DI 30 WEST BATTERY @ A-15-20S-31E
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	BIG EDDY UNIT DI 30 WEST BATTERY
Date Release Discovered	04/14/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Dump Line   Produced Water   Released: 14 BBL   Recovered: 10 BBL   Lost: 4 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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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 510105

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 510105
	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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/29/2025
--	--

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 510105

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 510105
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	U.S. Geological Survey
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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)	8880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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	04/21/2025
On what date will (or did) the final sampling or liner inspection occur	05/09/2025
On what date will (or was) the remediation complete(d)	05/09/2025
What is the estimated surface area (in square feet) that will be reclaimed	2000
What is the estimated volume (in cubic yards) that will be reclaimed	160
What is the estimated surface area (in square feet) that will be remediated	2000
What is the estimated volume (in cubic yards) that will be remediated	160
<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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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 510105

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  510105
	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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/29/2025
<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 510105

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  510105
	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	surface process piping, pipe supports, separators, fresh water knock out (FWKO), access stairs.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1310
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	100
<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	fAPP2123045897 BIG EDDY UNIT 30 EAST
Enter the well API (30-) on which this deferral should be granted	Not answered.
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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/29/2025

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QUESTIONS, Page 6

Action 510105

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 510105
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	487094
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

**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 510105

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  510105
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number NAPP2510532038) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area designated as "Deferral Area" on figure 4 that is next to active production equipment and surface pipelines, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	11/12/2025