

September 25, 2024

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

Re: Deferral Request Remuda 500 Battery Incident Number NAPP2418053192 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 Remuda 500 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 NAPP2418053192 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.270479°, -103.937524°) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO).

On June 27, 2024, internal corrosion on a pipeline resulted in the release of approximately 37 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and process piping with no released fluids recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on June 28, 2024 and submitted an Initial C-141 Application (C-141) on July 1, 2024. The release was assigned Incident Number NAPP2418053192.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On January 5, 2021, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-04494, located approximately 0.30 miles northwest of the Site, was drilled utilizing a truck-mounted hollow-stem auger

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rig. The boring was drilled to a total depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at that location is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included 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 seasonal dry wash, located approximately 128 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the closest significant watercourse, 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

CULTURAL PROPERTIES PROTECTION

Since the release remained on pad, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such no additional cultural resource surveys were completed in connection with this release.

DELINEATION AND EXCAVATION ACTIVITIES

On July 15, 2024 through August 23, 2024, Ensolum personnel were onsite to oversee delineation and excavation activities. Five potholes (PH01 through PH05) were advanced via backhoe or hydrovac to assess the lateral and vertical definition of the release. Potholes PH01 through PH05 were advanced to maximum depths ranging from 6 feet to 9 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 9 feet bgs. 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. Field screening results and observations from each pothole were logged on lithologic/soil sampling logs, which are included in Appendix B. All delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted and photographs are included in a Photographic Log in Appendix C.

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 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 Standards Method SM4500.

Soil was excavated to the maximum extent possible (MEP) with hydrovac, backhoe, and transport vehicles. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment, pipelines, and or utilities. Following the removal of impacted soil, 5-point



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composite confirmation soil samples were collected every 200 square feet from the floor of the excavation (FS01 through FS12) at depths ranging from 3 feet to 9 feet bgs and from the sidewalls of the excavation (SW01 through SW06) at depths ranging from ground surface to 9 feet bgs. Sidewall soil sample SW07 was collected from ground surface to 4 feet bgs and a second sidewall in the same area was collected from 4 feet bgs to 9 feet bgs to confirm the top 4 feet of the excavation was compliant with the Closure Criteriat. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thouroughly mixing. The soil samples were collected, handled, and analyzed following the same procedures as described above. The final excavation extent and floor and sidewall soil sample locations are depicted on Figure 3.

Laboratory analytical results for delineation soil samples collected from PH01, located within the release extent, at depths of 0.5 feet and 1 foot bgs indicated that chloride concentrations exceeded the Closure Criteria. The terminal delineation soil sample of PH01B collected at 6 feet bgs indicated all COC concentrations were compliant with the Closure Criteria, successfully defining the vertical extent of the release. Laboratory analytical results for delineation soil samples PH02 through PH05B, located north, south, east, and west of the excavation extent, collected at depths ranging from 0.5 feet bgs to 9 feet bgs indicated all COCs were compliant with the Closure Criteria, successfully defining the lateral extent of the release.

Laboratory analytical results for confirmation soil samples SW01 and SW03 indicated chloride concentrations exceeded Site Closure Criteria. On September 6, 2024, Ensolum personnel returned to the Site to oversee additional excavation and sampling activities in response to elevated chloride levels in the area of SW03. Two confirmation soil samples were collected from the new sidewall: SW07 from ground surface to 4 feet bgs and another sample representing the sidewall at depths of 4 feet to 9 feet bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

The final excavation extent measured approximately 2,220 square feet. A total of approximately 330 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

Due to proximity to active production equipment requiring access for operations, the excavation was backfilled on September 13, 2024, with locally procured material and recontoured to match the surrounding pad conditions.

DEFFERAL REQUEST

Due to active production equipment and process piping present in the area, depicted in photos 6 through 8, the remaining impacted soil along the sidewall represented by confirmation soil sample SW01 was not removed. XTO is requesting a deferral of final remediation of residual impacts. The estimated extent of remaining impacted soil measures approximately 2,777 square feet, and a total of approximately 617 cubic yards of impacted soil remains in place, assuming a depth of 6 feet bgs based on laboratory analytical results from delineation soil sample PH01B. The release extent has been laterally delineated by delineation soil samples PH02 through PH05 and excavation sidewall soil samples SW02 and SW04 through SW07. The proposed deferral area and all 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. Depth to groundwater was determined to be greater than 110 feet, and the entirety of the release remained on pad. 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 NAPP2418053192 until final abandonment of the well pad or major construction, whichever comes first.



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

Sincerely, **Ensolum, LLC**

D:/a. M1 David A. McInnis **Project Geologist** Ashley L. Ager, MS, PG

Principal

Colton Brown, XTO CC:

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Delineation Soil Sample Locations Figure 2 **Excavation Soil Sample Locations** Figure 3

Figure 4 Deferral Area Map

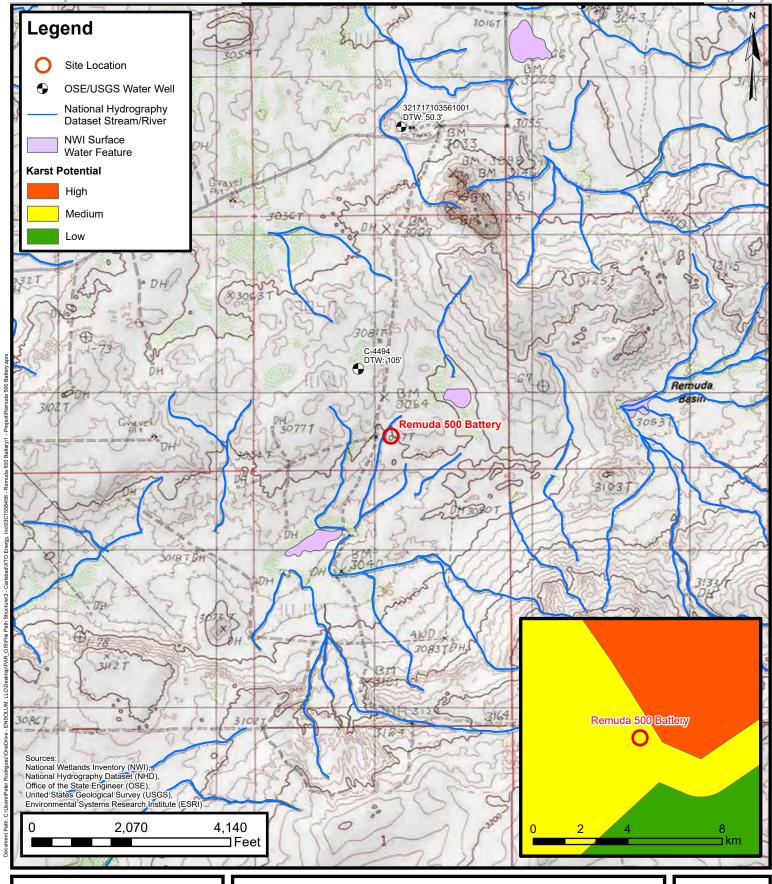
Table 1 Soil Sample Analytical Results Referenced Well Records Appendix A Appendix B Lithologic / Soil Sampling Logs

Appendix C Photographic Log

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



FIGURES





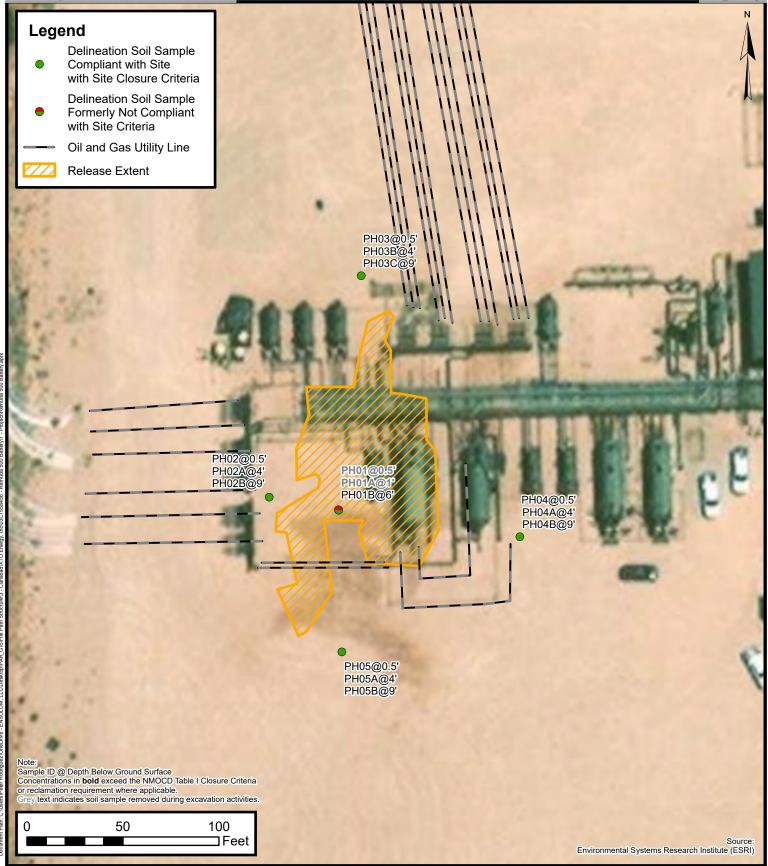
Site Receptor Map

XTO Energy, Inc Remuda 500 Battery Incident Number: NAPP2418053192

> Unit O , Sec 25, T23S, R29E Eddy County, New Mexico

FIGURE

1



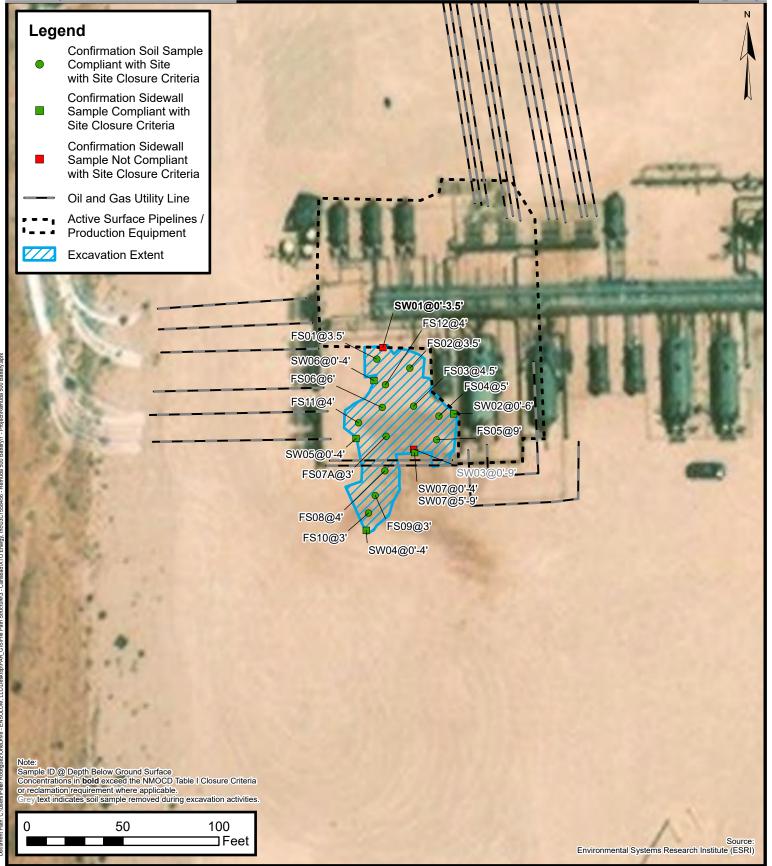


Delineation Soil Sample Locations

XTO Energy, Inc Remuda 500 Battery

Incident Number: NAPP2418053192

Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE 2



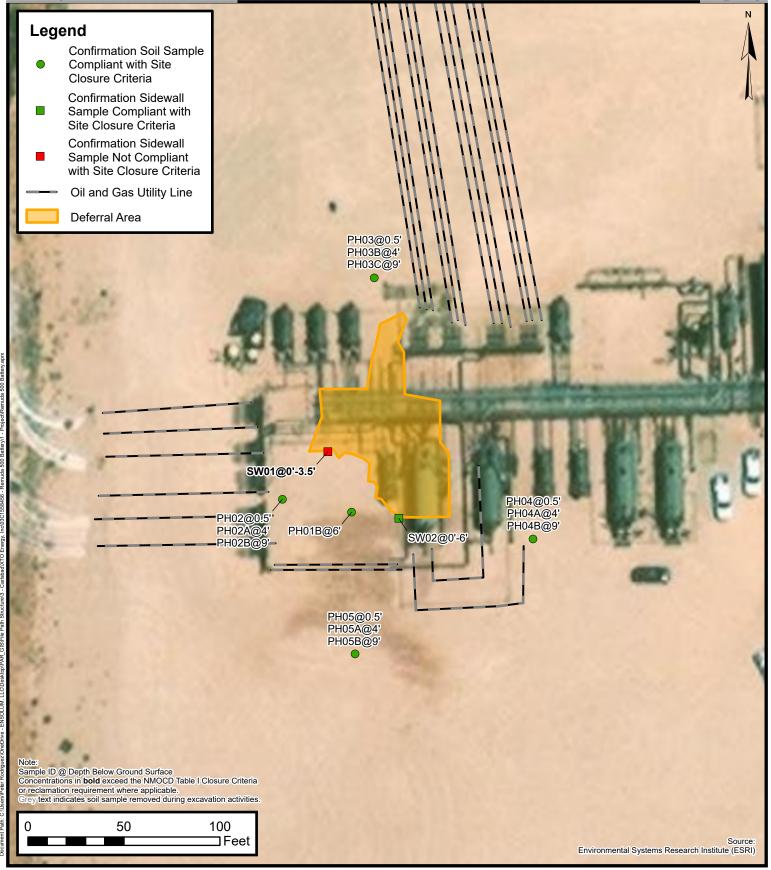


Excavation Soil Sample Locations

XTO Energy, Inc Remuda 500 Battery

Incident Number: NAPP2418053192

Unit O, Sec 25, T23S, R29E Eddy County, New Mexico FIGURE 3





Deferral Area

XTO Energy, Inc Remuda 500 Battery Incident Number: NAPP2418053192

> Unit O , Sec 25, T23S, R29E Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda 500 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 C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	neation Soil Sai	nples				
PH01	07/15/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,000
PH01A	07/15/2024	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,700
PH01B	07/15/2024	6	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH02	07/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
PH02A	07/30/2024	4	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH02B	07/30/2024	9	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH03	07/30/2024	0.5	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH03B	07/30/2024	4	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH03C	07/30/2024	9	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH04	07/30/2024	0.5	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH04A	07/30/2024	4	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH04B	07/30/2024	9	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	07/30/2024	0.5	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
PH05A	07/30/2024	4	<0.50	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH05B	07/30/2024	9	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
				Confi	irmation Soil Sa	ımples				
FS01	07/16/2024	3.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS02	07/16/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS03	07/17/2024	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS04	07/16/2024	5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS05	07/16/2024	9	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS06	07/17/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS07	08/23/2024	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS08	08/23/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS09	08/23/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS10	08/23/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS11	09/06/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS12	09/06/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Remuda 500 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 CI	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
SW01	07/16/2024	0 - 3.5	<0.050	<0.300	<10.0	30.5	<48.0	30.5	30.5	896
SW02	07/16/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SW03	08/23/2024	0-9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,230
SW04	08/23/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW05	09/06/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW06	09/06/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW07	09/06/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW07	09/06/2024	4 - 9	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 2 of 2



APPENDIX A

Referenced Well Records

7)		WS	SP USA			BH or PH Name: BH01 (C-04494)	Date: 11/18/2020, 12/02/20, 01/05/2021			
	•			Cor	08 West	Stevens S	Street		Site Name:	Remuda North 25 Observation Well			
				Cal	Isbad, Ne	W MEXICO	0 88220		RP or Incident Numbe				
			01.06	NO / 00!!	OAMBI	1110 1 0			LTE Job Number:	TE012919039			
Lat/Lo	na:	LIIH	OLOG	SIC / SOIL	Field Scre		G		Logged By BB, LAD, FS Hole Diameter:	Method: Hollow Stem Auger, sonic Total Depth:			
Comm	_				Fleid Scie	eriirig.			6.25", 4.25"	105'			
		s only. No	field s	creenings: D	ry hole	l		l					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	SU S	Lithology/Remarks					
D			Ν		_	1	SP-SC						
					- - -	2 3			ND, dry, brown, poor ots, no stain, no odor	rly graded, fine grain, Clay (10% clay)			
D			N		- - -	4 5	ССНЕ			t brown, poorly graded, very fine - fin pebbles, no stain, no odor			
					- - -	6 7				wn-tan, poorly consolidated, sub- gravel, very silty, gradational			
					-	8		9-14' : A	bundent sub-round o	aliche gravel			
					_	-		14-19' :	Some sub-angular ca	aliche gravel and pebbles			
					_	9			_	ar caliche gravel and pebbles,			
					-	10			ely consolidated	ar camerro graver and peacetos,			
					- -	11							
					-	12							
					<u>-</u>	13 14							
					-	15							
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D		_	Ζ			25	CL						

Moisture Communication Content	nents: ogy remarks		SIC / SOIL creenings: Di	08 West Salsbad, New SAMPL Field Scree y hole Sample	v Mexico	88220		BH or PH Name: BH01 (C-04494) Site Name: RP or Incident Numbe LTE Job Number: Logged By BB, LAD, FS Hole Diameter: 6.25", 4.25" Lith	Date: 11/18/2020, 12/02/2 Remuda North 25 Obs TE012919039 Method: Hollow Ste Total Depth: 105' ology/Remarks	servation Well
D		Z			26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	CL DOL	consolid no odor, 34-39': 3 features At 39': E 39-42': 1 consolid odor, light 42-45': 5 (>1mm) At 48': \$ 48-56': 7	sted, cohesive, trace sharp transition Sub-angular calcium (1-3mm), tan-light be gegin air rotory (4.25 DOLOMETIC LIMES ated, with dissolution to moderate react Some light gray dolometry dolometry and the constant of the	") TONE, tan-light brown features (1-3mm), sha fon with HCI mite with trace dissolut	ebbles, no tain, dissolution , dry, well arp, no stain, no tion features 2/02/20), ck banding, no

									BH or PH Name:	Date:
					WS	P USA			BH01 (C-04494)	11/18/2020. 12/02/2020, 1/5/2021
·				5	08 West S	Stevens S	Street		Site Name: Remuda	North 25 Observation Well
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	
									LTE Job Number: TE01291903	39
		LITH	OLOG	IC / SOII			G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	ong:				Field Scre	ening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'
Comn Lithol	nents: ogic log on	ly, no field	d screer	nings						1.55
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	/Remarks
D			S Z Z			51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	DOL CH-S	DOLOM no odor At 56': I 56-65': calcium (2mm) v within di 62': Bro stringer 63-65': gray, po 65-69': high pla pale gre 69-81':	Restarted borehole on 1/5 DOLOMITE, dry, light gra crystalline veins (<1mm), vith fine calcite crystalline ssolution features, no sta wn-pale yellow coarse cr (2cm) Abundant calcite crystalli orly consolidated MUDSTONE, moist, redo sticity, cohesive, abundar en-gray mottling, no stair GYPSUM with Anhydrite,	ay-gray, well consolidated, some some dissolution features, trace orange oxidation staining in, no odor systalline dolomitic limestone ne veins (<1mm), pale green-lish brown, poorly consolidated, at coarse crystalline gypsum, few
D			N		- - - - - - - - -	69 70 71 72 73	GYP			

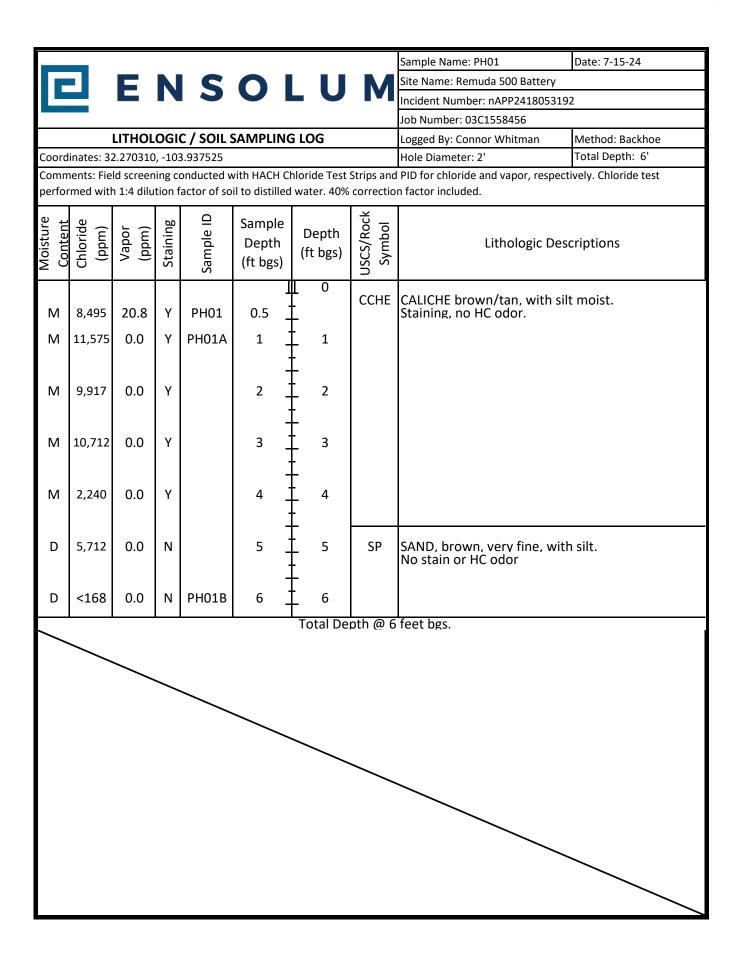
									BH or PH Name:	Date:
7			7		WS	PUSA			BH01 (C-04494)	
					:00 Most 6	Stovene	Stroot			11/18/2020. 12/02/2020, 1/5/2021 muda North 25 Observation Well
				Car	508 West S Isbad, Ne	stevens s w Mexico	88220		RP or Incident Number:	irriuda Nortri 25 Observation Well
									LTE Job Number: TE0129	919039
		LITH	OLOG	IC / SOII	SAMPL	ING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	ng:			,	Field Scre				Hole Diameter:	Total Depth:
									6.25", 4.25"	105'
Comm	nents: ogic log on	lv. no field	d screer	ninas						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			ology/Remarks
			S Z	Se S	(π bgs)	76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98	GYP	yellow, v no odor 81-98': consolid gypsum 85-86.5' gypsum, 90-98': At 97': c 98-99.5' consolid 99.5-108	MUDSTONE, moist, ated, high plasticity, inclusions, no stain, greenish-gray well anhydrite stringer Some fine grain browdark gray-gray gyspurt: GYPSUM, dark graated, fine-coarse cryst: Sandy SILTSTON	consolidated coarse crystalline
D			N			99	ML-S			

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 BH01 (C-04494) Site Name: Remuda North 25 Observation Well RP or Incident Number: LTE Job Number: TE012919039		·			7.23.301					BH or PH Name:	Date:
Side National Cartholad New Montation BB220 Side National Page in Incident Numbers:	7			7		WS	P USA				
LithoLogic / SoilL SAMPLING Log Lagida Big Bill ADP R Method: Hollow Stem Auger, soni Lagida Big Bill ADP R Method: Hollow Stem Auger, soni Lagida Big Bill ADP R Method: Hollow Stem Auger, soni Hole Diameter Total Depth: Total						ins Most s	Stevens S	Street			
LITHOLOGIC / SOIL SAMPLING LOG Laged Dispersion					Car	Isbad, Ne	w Mexico	88220			ida Norm 20 Obcorvation Wolf
Lat Lorg: Field Screening: Hale Dameter: Total Depth: 6.25', 4.25' 105' 105' Lithology/Remarks (Indeed) Lithology (Indeed) Lith											9039
			LITH	OLOG	IC / SOII	SAMPL	ING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Comments Chamments Chamm	Lat/Lo	ng:				Field Scre	ening:				
Lithology (no field screenings) Proceedings Procedings Proceedings Procedings Procedings Procedings Proceedings Procedings Procedings Proceedings Procedings Procedings Procedings Procedings Proceedings Procedings Procedings Procedings Procedings Procedings Procedings Procedings Procedings Procedings	Comm	nents:				<u> </u>				6.25", 4.25"	105'
101 ML-S 99.5-105 : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, rodor At 102 : Thin (<1mm) laminated black/gray well consolidated shale stringer (4cm thick)			ly, no field	d screer	nings						
101 ML-S 99.5-105 : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, rodor At 102 : Thin (<1mm) laminated black/gray well consolidated shale stringer (4cm thick)	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	Depth		Litholog	gy/Remarks	
D N TD @ 105' bgs (1/5/2021) N TD @ 105' bgs (1/5/2021) TD @ 105' bgs (1/5/2021) TD @ 105' bgs (1/5/2021)							101				
N Shale stringer (4cm thick) 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123						-	102			orly consolidated, 20%	very fine grain sand, no stain, no
D N 105						-	103				d black/gray well consolidated
D N 106 107 108 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 123						-	104		SHAIR ST	mger (4011 thick)	
106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123	D			N		_	105		TD @ 1	05' bas (1/5/2021)	
108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123				14		_	106			39 (H0/2021)	
110 111 112 113 114 115 116 117 118 119 120 121 122 123						_	107				
110 111 112 113 114 115 116 117 118 119 120 121 122 123						_					
111 112 113 114 115 116 117 118 119 120 121 122 123						_					
112 113 114 115 116 117 118 119 120 121 122 123						-					
113 114 115 116 117 118 119 120 121 122 123						-					
114 115 116 117 118 119 120 121 122 123						-					
115 116 117 118 119 120 121 122 123						-					
117 118 119 120 121 122 123						_	115				
118 119 120 121 122 123						-	116				
119 120 121 122 123						-	117				
120 121 122 123						-	118				
121						-	119				
122						_	120				
						_					
						_					
+						-					
125						-					



APPENDIX B

Lithologic Soil Sampling Logs



7								Sample Name: PH02	Date: 7-30-24
	7							Site Name: Remuda 500 Battery	
			N		U	LU	V	Incident Number: nAPP2418053	
								Job Number: 03C1558456	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Connor Whitman	Method: Hydro Vac
Coord	inates: 3							Hole Diameter: 1'	Total Depth: 9'
Comn	nents: Fie	ld screen	ing c	onducted w				PID for chloride and vapor, respondant of the properties of the pr	ectively. Chloride test
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
D	168	0.0	Ν	PH02	0.5	L 0 -	ССНЕ	CALICHE, tan, with cobble No stain, no odor.	sized rocks, and silt.
D	168	0.0	N		1				
D	168	0.0	N		2	2			
D	168	0.0	N		3 _	3			
D	168	0.0	Ν	PH02A	4 _	4			
D	168	0.0	Ν		6 -	- - - - - - - -	SP	SAND, brown, very fine, w No stain, No odor.	rith silt.
D	168	0.0	N		8 _	8			
D	168	0.0	N	PH02B	9 _	9			
_	_					Fotal De	pth @ 9	feet bgs.	
			_	_					
							_		
									_

V.								Sample Name: PH03	Date: 7-30-24
			N	S			M	Site Name: Remuda 500 Battery Incident Number: nAPP2418053	У
								Incident Number: nAPP2418053	3192
								Job Number: 03C1558456	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Connor Whitman	Method: Hydro Vac
				3.937556				Hole Diameter: 1'	Total Depth: 9'
			_					PID for chloride and vapor, resp n factor included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Descriptions
D	235	0.0	N	PH03	0.5	0 - -	ССНЕ	CALICHE, tan, with cobble No stain, no odor.	e sized rocks, and silt.
D	168	0.0	N		1 _	1			
D	168	0.0	N		2 _	- _ 2 -			
D	168	0.0	Ν		3	- 3			
D	168	0.0	N	РН03А	4 _	- - 4 - -			
D	168	0.0	N		6 -	- - - - - - - -	SP	SAND, brown, very fine, v No stain, No odor.	vith silt.
D	168	0.0	N		8 _	- - 8			
D	168	0.0	Ν	РН03В	9 _	- - 9			
						Total De	oth @ 9	feet bgs.	
					_				

1								Sample Name: PH04	Date: 7-30-24						
		F	N	S			M	Site Name: Remuda 500 Battery Incident Number: nAPP2418053	1						
								Incident Number: nAPP2418053	3192						
								Job Number: 03C1558456							
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Connor Whitman	Method: Backhoe						
		2.270374						Hole Diameter: 2'	Total Depth: 9'						
			_					PID for chloride and vapor, resp n factor included.	ectively. Chloride test						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions						
D	<168	0.0	Ν	PH04	0.5	<u> </u>	ССНЕ	CALICHE, tan, with cobble No stain, no odor.	sized rocks, and silt.						
D	<168	0.0	N		1 _	1									
D	D <168 0.0 N 2 1 2														
D	<168	0.0	Ν		3 _	- - 3									
D	<168	0.0	Ν	PH04A	4 _	- - 4 -									
D	<168	0.0	N		6	- - - - - 6	SP	SAND, brown, very fine, w No stain, No odor.	vith silt.						
					- - - - -	- - - - -									
D	<168	0.0	Ν	PH04B	9 _	- - 9									
						Total De	oth @ 9	feet bgs.							
							_								

y								Sample Name: PH05	Date: 7-30-24						
		F	N	S			M	Site Name: Remuda 500 Battery Incident Number: nAPP24180531							
								Incident Number: nAPP24180531	92						
								Job Number: 03C1558456	1						
					SAMPLING	LOG		Logged By: Connor Whitman	Method: Backhoe						
				3.937583				Hole Diameter: 2'	Total Depth: 9'						
			_					PID for chloride and vapor, respect n factor included.	ctively. Chloride test						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions						
D	<168	0.0	N	PH05	0.5	<u> </u>	ССНЕ	CALICHE, tan, with cobble s No stain, no odor.	sized rocks, and silt.						
D	<168	0.0	N		1 _	<u> </u>									
D															
D	D <168 0.0 N 3 + 3														
D	<168	0.0	N	PH05A	4 _	- - 4	SP	SAND brown, very fine, wit and silt. No stain or odor.	h low plasicity clay						
					- - -	- - 5 -									
D	<168	0.0	N		6 _	- _ 6 -	SP	SAND, brown, very fine, wit No stain, No odor.	th silt.						
					-	- - 7									
D	<168	0.0	Ν		8 _	- - 8 -									
D	<168	0.0	N	PH05B	9	- 9 - 9	ath @ 0	feet bgs.							
<u> </u>						וטנמו טפן	טנוו שַ 9	וככו שבט.							
			_												
								_							



APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc Remuda 500 Battery NAPP2418053192



Photograph: 1 Date: 6/27/2024

Description: Soil staining in release footprint

View: North



Photograph: 2 Date: 6/27/2024 Description: Soil staining in release footprint

View: North



Photograph: 3 Date: 7/30/2024

Description: Excavation activities

View: Southeast



Photograph: 4 Date: 7/30/2024

Description: Excavation activities

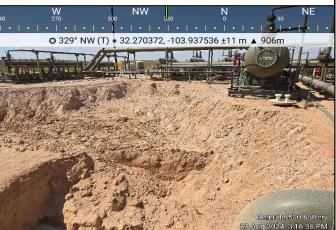
View: Southeast

E E N S O L U M

Photographic Log

XTO Energy, Inc Remuda 500 Battery NAPP2418053192





Photograph: 5 Date: 8/23/2024

Description: Excavation activities

View: East

Photograph: 6 Date: 8/23/2024

Description: Excavation activities

View: Northeast





Photograph: 7 Date: 9/6/2024

Description: Excavation activities

View: Southeast

Photograph: 8 Date: 9/6/2024

Description: Excavation activities

View: Northeast



Photographic Log

XTO Energy, Inc Remuda 500 Battery NAPP2418053192





Photograph: 9 Date: 9/6/2024

Description: Final excavation extent

View: East

Photograph: 10 Date: 9/6/2024

Description: Final excavation extent

View: Northeast





Photograph: 11 Date: 9/13/2024

Description: Backfill extent View: Southeast

Photograph: 12 Date: 9/13/2024

Description: Backfill extent View: Northwest



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



July 23, 2024

DAVID MCINNIS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: REMUDA 500 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/18/24 13:50.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 07/18/2024
 Sampling Date:
 07/16/2024

 Reported:
 07/23/2024
 Sampling Type:
 Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: XTO 32.270479,-103.937524

Sample ID: FS 01 3'6" (H244310-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Sampling Date: 07/16/2024

Reported: 07/23/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C1558456 Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: FS 02 3'6" (H244310-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
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	07/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	84.7 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Sampling Date: 07/16/2024

Reported: 07/23/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: SW 01 0-3'6" (H244310-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97	
DRO >C10-C28*	30.5	10.0	07/19/2024	ND	214	107	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Sampling Date: 07/16/2024

Reported: 07/23/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: FS 04 5' (H244310-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Sampling Date: 07/16/2024

Reported: 07/23/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: SW 02 0-6' (H244310-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/22/2024	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	07/19/2024	ND	197	98.6	200	7.97	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Reported: 07/23/2024

ma/ka

Project Name: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Location: XTO 32.270479,-103.937524

Sampling Date: 07/16/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 9' (H244310-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/22/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	202	101	200	6.64	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	193	96.3	200	9.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Analyzed By: 14

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Celey & Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Sampling Date: 07/17/2024

Reported: 07/23/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: FS 03 4'6" (H244310-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/22/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	202	101	200	6.64	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	193	96.3	200	9.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/18/2024 Sampling Date: 07/17/2024

Reported: 07/23/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: FS 06 6' (H244310-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	2.33	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866	
Total BTEX	<0.300	0.300	07/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/22/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	202	101	200	6.64	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	193	96.3	200	9.45	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



July 22, 2024

DAVID MCINNIS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: REMUDA 500 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/16/24 13:25.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/16/2024 Reported: 07/22/2024

REMUDA 500 BATTERY

Project Name: Project Number: 03C1558456

Project Location: XTO Sampling Date: 07/15/2024 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: PH 01 .5' (H244232-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7000	16.0	07/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/16/2024 Sampling Date: 07/15/2024

Reported: 07/22/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO

Sample ID: PH 01A 1' (H244232-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5700	16.0	07/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/16/2024 Sampling Date: 07/15/2024

Reported: 07/22/2024 Sampling Type: Soil
Project Name: REMUDA 500 BATTERY Sampling Condition: Cool

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Project Location: XTO

Sample ID: PH 01B 6' (H244232-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.5	2.00	4.05	
Toluene*	<0.050	0.050	07/17/2024	ND	2.14	107	2.00	3.45	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.20	110	2.00	3.02	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.83	114	6.00	2.91	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	206	103	200	5.27	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	179	89.4	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene



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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Parks Hwy Company: XTO Energy Inc. State: NM Zip: 88220 Attn: Amy Ruth Address: 3104 E. Green St. City, Carlsbad City, Carlsbad Energy Inc. State: NM Zip: 88220 Phone #: Fax #:	Ensolum, LLC		BILL TO	9	- 1
State: NM Zip: 88220 Attn: Amy Ruth Fax #: Address: 3104 E. Green St. Project Owner: XTO City: Carlsbad State: NM Zip: 88220 Sharple Depth G I Ell Att Tity Pax #: Fax #: Fa	Project Manager: David Mcinnis			-	
State: NM Zip: 88220 Attn: Anny Ruth Fax #: Address: 3104 E. Green St. 1586 Project Owner: XTO City: Carlsbad da 500 Battlery MATRIX PRESERV SAMPLING PROSERV SAMPLING PRESERV SAMPLING PRESE	Address: 3122 National Parks	Hwy	Company: XTO Ene	aray Inc	
Address: 3104 E. Green St. State: N.M. Zip: 88220 Phone #:	Ca		Attn: Amy Ruth		
State: NM Zip: 88220 Phone #: Fax #: PRESERV SAMPLING Phone #: PRESERV SAMPLING Phone #: PRESERV SAMPLING PRESERV PRESERV PRESERV SAMPLING PRESERV PRESE	100	Fax #:	1	reen St.	
MATRIX PRESERV SAMPLING Phone #: Phone #: Fax #:		Project Owner: XTO			
Phone #: Fax #: PRESERV SAMPLING PRESERVE SAMPLI		Battery		220	
PRESERVY SAMPLING DATE TIME BY H H H H H H H H H H H H H H H H H H H	Project Location:		1		
MATRIX PRESERV SAMPLING PRESERV SAMPLING PRE	Sampler Name: Jesse Dorman		Fax #		
Die I.D. Sample Depth C; RE RR C; (feet) DR RE RE RR C;	FOR LAB USE ONLY		ESERV.	WPLING	
A DATE TIME BY A DATE		Sample Depth B OR (C)OMP ITAINERS INDWATER EWATER	R: BASE: OOL		
Ax	CSENHON.	# CON' GROUN WASTE	OTHER ACID/B/ ICE / CO OTHER	BTE.	
### Lability and client's exclusive remety for any claim a rising whether based in common of text, shall be funded to the amount past by the client for the applicable rice causes whatsoever shall be deemed waived unless made in writing and received by Caudinal subtinity to Standard to the applicable rice deemed waived unless on the performance of streets indication, because of her burny doors, loss of least of point incommon of text and be funded to the amount past by the client for the applicable rice deemed waived unless on the performance of streets indications of whether such claims a based upon any of the above stated reasons or otherwise. Date:	2401	7,004	215/0	0950	
at leading and deriff exclusive remarks for any claim at his plan whether based in contract or but, shall be limited for the manufacture of the expelicable nonclearliar consequents dismapse, including without limitation, business interruptions, lose of upon any of the applicable nonclearliar consequents dismapse, including without limitation, business interruptions, lose of upon any of the above stated accessed. Date: Date: Column, unsquared and without such claims is based upon any of the above stated researched by Casting, unsquared by	Phol	6	4	~ 1 -	
art labelity and client's exclusive remedy for any claim arising whether based in contract or text, shall be limited to the amount paid by the client for the applicable noted and any other crasse whatbooker shall be deemed valved unless made in writing and received by Caurinal unline), and or consequently claim as based upon any of the above stater completion of the applicable noted that applicable in the subsidiaries. Date: Time: Received By:	/			I K	
and shapility and client's exclusive remedy for any claim airing whether based in contract or tox, shall be limited to the amount paid by the client for the period any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable of the applicable of the period interest by Cardinal legardates of whether such claims is based upon any of the above stated client is subsidiaries. Date: Received By: Received By: Received By: Received By: Received By: Cost Center: 1067601001 Incident ID: nAPP24180:					
and shability and client's exclusive remeaty for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the nocleman or contracted admapse, including without limitation, business returnations, business returnations of profits incurrent by client, its subadianties, subadianties, and incurrent returnations or or or branchies. Verbal Result: Yes No Add'l Phone #: Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: bbelief emai					
at liability and client's exclusive remedy for any claim arising whether based in contract or tord, shall be limited to the amount paid by the client for the entert for the antibuty and client for the applicable incidental or consequential damages, including without limitation, business rather uptions, loss of use, or loss of profits incidental reasons or otherwise. Date:				2	
In sale and put of cause whatever remedy for any claim airling whether based in contract or tord, shall be limited to the amount paid by the client for the performance of any other causer shall be deemed walked unless made in writing and received by Caurinal within 30 days after competition of the applicable to the performance of services hereunder by Caurinal regardless of whether such claim is based upon any of the above statistic reasons or otherwise. Date: Received By: Received By: Person Add'l Phone #: All Results are emailed. Please provide Email address: bheilil@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ Cost Center: 1067601001 Incident ID: nAPP24180; Corrected Tamp. **C. Cool Intact Coo	TRASS NOTE: TRASS CO.		/		
Date: Time: Time: Colorested Temp. **C Cool Intact Contracted Temp. **C Cool No	rialyses. All claims including those for neglegence and any of elevice. In no event shall Cardinal be liable for incidental or co filiates or successors arising out of or related to the performa	zientis suculative remedy for any claim a rising whether based in contract her craises whatsoever shall be deemed walved unless made in witing an insequential damages, including without limitation, business interruptions, ince of services hereunder by Cardinal, regardless of whether such daim	I or tort, shall be limited to the amount pair of received by Cardinal within 30 days after loss of use, or loss of profits incurred by o is based upon any of the above stated re-	d by the client for the or completion of the applicable lient, its subadiaries,	
Date: Received By: Received By: Received By: Remarks: Cost Center: 1067601001 Incident ID: nAPP24180: Corrected Tamp. *C Cool Intact Corrected Tamp. *C Contracted Tamp. *C No No No No Thermometer ID #113 Turnaround Time: Standard Cool Intact Contracted Tamp. *C Contracted Tamp. *C No No No No Thermometer ID #113	0,897	-		Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provide	Add'I Phone #: de Email address:
Cost Center: 1067601001 Incident ID: nAPP24180: Cool Infact (Initials) Turnaround Time: Standard W Bacteria (only) Standard W Bacteria (only) Standard W Cool Infact (Initials) Thermometer ID #113 Contracted Tamps: C Deserved Tamps: C Deserve	Relinquished By:			bbelill@ensolum.com, TMorrissey@e	ensolum.com, dmcInnis@ensolum.com
Contracted Tamp. °C Contracted Tamp. °C Contracted Tamp. °C Contracted Tamp. °C No No No CheckED BY: Turnaround Time: Standard W Bacteria (only) S Contracted Tamp. °C Contracted Tamp. °C No No No CheckED BY: Turnaround Time: Standard W Bacteria (only) S Contracted Tamp. °C				nter: 1067601001	ncident ID: nAPP2418053192
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The state of the s		_		# = + = >	□Yes □ Yes



August 07, 2024

DAVID MCINNIS ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA 500 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/01/24 14:10.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 02 0.5 (H244608-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	68.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 02A 4 (H244608-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Alyssa Parras

Project Location: XTO 32.270479,-103.937524

Sample ID: PH 02B 9 (H244608-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	62.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Alyssa Parras

Project Location: XTO 32.270479,-103.937524

Sample ID: PH 03 0.5 (H244608-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 03B 4 (H244608-05)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Alyssa Parras

Project Location: XTO 32.270479,-103.937524

Sample ID: PH 03C 9 (H244608-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	80.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 04 0.5 (H244608-07)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 04A 4 (H244608-08)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	75.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 04B 9 (H244608-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	64.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: XTO 32.270479,-103.937524

ma/ka

Sample ID: PH 05 0.5 (H244608-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	68.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Alyssa Parras

Project Location: XTO 32.270479,-103.937524

Sample ID: PH 05A 4 (H244608-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	75.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2024 Sampling Date: 07/30/2024

Reported: 08/07/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.270479,-103.937524

mg/kg

Sample ID: PH 05B 9 (H244608-12)

BTEX 8021B

DILX GOZID	1119/	ng .	Allulyzo	.u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.82	91.2	2.00	8.24	
Toluene*	<0.050	0.050	08/02/2024	ND	1.78	89.0	2.00	8.35	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.89	94.3	2.00	8.35	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.54	92.4	6.00	8.35	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/06/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	212	106	200	2.64	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	232	116	200	8.76	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

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Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition
Cool Intact
Lives Lives
No No

CHECKED BY: (Initials)

Turnaround Time: hermometer ID

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aboratories

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

Company Name:	Ensolum, LLC			B	BILL TO					A	ANAL YSIS	REQUEST	
Project Manage	Project Manager: David Mcinnis			P.O. #:					-				1
Address: 3122	Address: 3122 National Parks Hwy	W		Company: XTO Energy Inc.	TO Energ	v Inc.							
city: Carlsbad	ď	State: NM	Zip: 88220	Attn: Amy Ruth	Ruth								
Phone #: 337	337 257-8307	Fax #:		Address: 3104 E.	in	Green St.							
Project #: : 0	: 03C1558456	Project Owner: XTO	OLX	city: Carlsbad	ad								
Project Name:	Remuda 500 Battery	attery		State: NM	Zip: 88220	0							
Project Location:				Phone #:									
Sampler Name:	Sampler Name: Connor Whitman			Fax #:									
FOR LAB USE ONLY				MATRIX PRESERV	SAMPLING	LING							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER:	DATE	TIME	BTEX	TPH	CHLORIDE				
_	PH02	0.5	_		7-30-24	950		-	-	1			
2	PLONG	4			_	010							
W	8102B	9				1025							
c	0163	0.5				1030							
N	PH03B	4				1050							
8	PHO3C	9				5011							
	640	0,5				1210							
00	MANO	h				1230							
2	BHOHB	9	\ \ \	<	4	1240							
LEASE NOTE: Liability annalyses. All claims includin ervice. In no event shall Ca ffliates or successors arisin	**************************************	ient's exclusive remedy for an r cause whatsoever shall be d requental damages, including the of services hereunder by Ca	claim arising whether based in emed waived unless made in thout limitation, business inte dinal, regardless of whether s	ised in contract or tort, shall be limited to de in writing and received by Cardinal wi s interruptions, loss of use, or loss of pro ther such claim is based upon any of the	o the amount paid b ithin 30 days after o ofits incurred by clie above stated reaso	by the client for the completion of the a nt, its subsidiaries, ons or otherwise.	pplicable		0	-			E
Kelinquished By		Pate: 1-24	Received By:		D	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	It: [☐ Yes nailed. P	☐ No Please pro	Add'	Add'I Phone #:	ss:	
Men	5		PBG	5		bbelill@en:	solum.	com,	Morrissey(Densolu	ım.com, dr	bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com	
Relinquished By:		Date: Time:	Received By:			REMARKS:	Cost	Cente	Cost Center: 1067601001	001	Incide	Incident ID: nAPP2418053192	
Delivered By: (Circle One)		Observed Temp. °C	Sample	Sample Condition CHECKED BY:		Please send of Turnaround Time:	send o	opy of	signed CO	C to: ox	hitman@e	Please send copy of signed COC to: cwhitman@ensolum.com	
		Dastag Isub.	Saldillos			urnaroung	ime:		Standard		Ractoria	Lantul Sample Condition	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(5/5) 393-2320 FAA	W (212) 222-541								SISV IN	PEOLIECT		
Company Name:	Ensolum LLC				BILL	70			AN	PLISIS	ANALTOIS REGUES!		L
Project Manager: David Mcinnis	David Mcinnis			P.O. #:	井				_				
Address: 3122 N	Address: 3122 National Parks Hwy	У		Com	Company: XTO	Energy Inc.	7"						
city: Carlsbad		State:NM	Zip: 88220	Attn:	Attn: Amy Ruth								
e #:	337 257-8307			Addr	Address: 3104 E.	E. Green St.	.+						
	: 03C1558456	Project Owner: XTO	XTO	City:	city: Carlsbad						_		
an	Remuda 500 Battery	ttery		State	State: NM Zip	Zip: 88220							-
Project Location:				Phone #:	ne #:			_					
Sampler Name: (Sampler Name: Connor Whitman			Fax #:	**			_					
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING							
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	DATE TIME	BTEX	TPH CHLORIDE					
10	SOHO	5.0	ang.		7.	1 1315	- 0						
2 =	200	0 -	4			1330	1 8						
	11900				-								
						/			-				
							7	1	X				
PLEASE NOTE: Liability an analyses. All claims includir service. In no event shall Cu	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of tuse, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of tuse, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of tuse, or loss of profits incurred by client, its subsidiaries, and the consequence of reflections.	Sient's exclusive remedy for an or cause whatsoever shall be do sequental damages, including to secure the secure of the secu	y claim arising whether t eemed waived unless m without limitation, busine	based in contract or lort, s lade in writing and receive lass interruptions, loss of u	hall be limited to the d by Cardinal within se, or loss of profits in	amount paid by the c 30 days after complet incurred by client, its s	y the client for the ompletion of the applicab nt, its subsidiaries, one or otherwise	ō					
Relinquished By:	inquished By:	Date:		Received By:			Verbal Result: All Results are en	☐ Yes [nailed. Plea	Verbal Result:	Add'I Phone #:	SS:		
R			2	Series		bb	elill@ensolun	n.com, TMor	rissey@enso	olum.com, dr	bbelill@ensolum.com, TMorrissey@ensolum.com, dmcInnis@ensolum.com	lum.com	
Relinquished By:	5		Received By:			REM	REMARKS: Co	Cost Center: 1067601001 end copy of signed COC to	ARKS: Cost Center: 1067601001 Incident ID: nAPP Please send copy of signed COC to: cwhitman@ensolum.com	Incide cwhitman@e	Incident ID: nAPP2418053192 lan@ensolum.com	418053192	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition Cool Intact	CHECKED BY:			4	Standard Rush	Bacteria (on Cool Intact ☐Yes ☐ Ye	ly) s	ample Condition Observed Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. C		Yes Yes	S		Correction Factor	1 450	7	No.	No No Corr	Corrected Temp. °C	

Corrected Temp. °C



August 28, 2024

DAVID MCINNIS ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA 500 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 13:47.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 08/27/2024
 Sampling Date:
 08/23/2024

 Reported:
 08/28/2024
 Sampling Type:
 Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: FS 07 3' (H245190-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/28/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	70.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Celey D. Kreine



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: REMUDA 500 BATTERY Sampling Condition: Cool & Intact
Project Number: 03C1558456 Sample Received By: Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: FS 08 4' (H245190-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03C1558456

Project Location: XTO 32.270479,-103.937524

Sample ID: FS 09 3' (H245190-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/28/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: FS 10 3' (H245190-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/28/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: SW 03 0-9' (H245190-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	08/28/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM DAVID MCINNIS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/27/2024 Sampling Date: 08/23/2024

Reported: 08/28/2024 Sampling Type: Soil

Project Name: **REMUDA 500 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558456 Shalyn Rodriguez

Project Location: XTO 32.270479,-103.937524

Sample ID: SW 04 0-4' (H245190-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.93	96.4	2.00	0.204	
Toluene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.911	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.86	93.0	2.00	0.958	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.54	92.4	6.00	1.14	
Total BTEX	<0.300	0.300	08/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/28/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	218	109	200	2.16	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	209	104	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	X (575) 393-2476	2011	ANALYSIS REQUEST
ompany Name: Ensolum, LLC		BILL 10	
roject Manager: David Mcinnis		P.O. #:	
ddress: 3122 National Parks Hwy	y	Company: XTO Energy Inc.	ĪC.
Carlsbad	State:NM Zip: 88220	Attn: Amy Ruth	
hone #: 409-454-3009		Address: 3104 E. Green St.	St
roject #: 03C1558456	Project Owner: XTO	city: Carlsbad	
3	ttery	State: NM Zip: 88220	
ž.	.937524	Phone #:	
Josep Dorman		Fax #:	
iampler Name: Jesse Donnan	XIGTAM	PRESERV SAMPLING	
FOR LAB USE ONLY	S ER	-	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)(# CONTAINERS GROUNDWATE WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH CHLORIC
F507	, 61		
8027	2 &		300
1 F510	15		(05///
5 5m03		1	129
to Sway	0-4,4-4	4	20
EASE NOTE: Liability and Damages. Cardinal's liability and cl alyses. All claims including those for negligence and any other vice. In no event shall Cardinal be liable for incidental or cons	PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the plicable analyses. All claims including those for negligence and any other cause whatboever shall be deemed waked unless made in writing and seceived by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries.	tract or fort, shall be limited to the amount paid by th g and received by Cardinal within 30 days after com ons, loss of use, or loss of profits incurred by client, a laim is based upon any of the above stated reasons.	
affiliates or successors arising out of or related to the performance. Relinquished By:	cord services hereunder by Cardinal, regardless of whiteher such of Received By:	AN SALL AII	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: DMcinnis@ensolum.com TMorrissey@ensolum.com, BBelil@ensolum.com
Relinquished By:	Date: Received By:	RE	REMARKS: Cost Center: 1067601001
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	orrected Temp. °C Sample Co	res CHECKED BY:	Turnaround Time: HUO - OI UL Hush Thermometer ID #113 Correction Factor 88°C ANN No No Corrected Temp. °C
FORM-000 R 3.2 10/07/21	† Cardinal cannot accept verbal c	changes. Please email change	† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cantinallabsnm.com



September 25, 2024

DAVID MCINNIS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA 500 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/06/24 15:26.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY

3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Project: REMUDA 500 BATTERY

Project Number: 03C1558456
Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 07 0-4'	H245416-01	Soil	06-Sep-24 12:00	06-Sep-24 15:26
SW 07 4-9'	H245416-02	Soil	06-Sep-24 12:02	06-Sep-24 15:26
SW 05 0-4'	H245416-03	Soil	06-Sep-24 12:04	06-Sep-24 15:26
SW 06 0-4'	H245416-04	Soil	06-Sep-24 12:06	06-Sep-24 15:26
FS 11 4'	H245416-05	Soil	06-Sep-24 12:08	06-Sep-24 15:26
FS 12 4'	H245416-06	Soil	06-Sep-24 12:10	06-Sep-24 15:26
BF 01	H245416-07	Soil	06-Sep-24 12:12	06-Sep-24 15:26

09/19/24 - Client changed the sample IDs for -01 and -02 (see COC). This is the revised report and will replace the one sent on 09/19/24.

09/25/24 - Client changed the depth on sample -02 (see COC). This is the 2nd revision of the report and will replace the one sent on 09/19/24.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

SW 07 0-4' H245416-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
Cardinal Laboratories												
Inorganic Compounds												
Chloride	128		16.0	mg/kg	4	4090913	НМ	09-Sep-24	4500-Cl-B			
Volatile Organic Compounds	by EPA Method	8021										
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JН	07-Sep-24	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B			
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B			
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B			
Surrogate: 4-Bromofluorobenzene (PID)	"		97.3 %	71.5	-134	4090622	ЈН	07-Sep-24	8021B			
Petroleum Hydrocarbons by C	GC FID											
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B			
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B			
Surrogate: 1-Chlorooctane			70.9 %	48.2-	-134	4090623	MS	06-Sep-24	8015B			
Surrogate: 1-Chlorooctadecane			80.8 %	49.1	-148	4090623	MS	06-Sep-24	8015B			

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY

Project Number: 03C1558456 Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

SW 07 4-9' H245416-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4090913	HM	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JН	07-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		97.0 %	71.5	-134	4090622	ЈН	07-Sep-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			85.0 %	48.2	-134	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			97.7 %	49.1	-148	4090623	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

SW 05 0-4' H245416-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	4090913	HM	09-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		98.7 %	71.5	-134	4090622	JH	07-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			66.8 %	48.2	-134	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			76.3 %	49.1	-148	4090623	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY

Project Number: 03C1558456 Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

SW 06 0-4' H245416-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	4090913	HM	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	TD)		100 %	71.5	-134	4090622	JH	07-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			96.7 %	48.2-	-134	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1	-148	4090623	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

FS 11 4' H245416-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4090913	HM	09-Sep-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		101 %	71.5	-134	4090622	JH	07-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			92.5 %	48.2	-134	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	4090623	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

FS 12 4' H245416-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	4090913	HM	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		100 %	71.5	-134	4090622	JH	07-Sep-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			88.2 %	48.2	-134	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			100 %	49.1	-148	4090623	MS	06-Sep-24	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

BF 01 H245416-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	4090913	HM	09-Sep-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4090622	JH	07-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	71.5	-134	4090622	JH	07-Sep-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctane			85.2 %	48.2	-134	4090623	MS	06-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			95.6 %	49.1	-148	4090623	MS	06-Sep-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Fax To:

Reported: 25-Sep-24 08:29

Inorganic Compounds - Quality Control

Cardinal Laboratories

Austra	D14	Reporting	T I '	Spike	Source	0/DEC	%REC	DDD	RPD Limit	Nister
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4090913 - 1:4 DI Water										
Blank (4090913-BLK1)				Prepared &	Analyzed:	09-Sep-24				
Chloride	ND	16.0	mg/kg							
LCS (4090913-BS1)				Prepared &	Analyzed:	09-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4090913-BSD1)				Prepared &	Analyzed:	09-Sep-24				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: REMUDA 500 BATTERY
Project Number: 03C1558456

Project Manager: DAVID MCINNIS

Spike

Source

Fax To:

Reported: 25-Sep-24 08:29

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

		Reporting		Spike	Bource		/orch		KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4090622 - Volatiles										
Blank (4090622-BLK1)				Prepared: ()6-Sep-24 A	nalyzed: (7-Sep-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.5	71.5-134			
LCS (4090622-BS1)				Prepared &	z Analyzed:	06-Sep-24	ŀ			
Benzene	1.99	0.050	mg/kg	2.00		99.7	82.8-130			
Toluene	1.93	0.050	mg/kg	2.00		96.3	86-128			
Ethylbenzene	1.94	0.050	mg/kg	2.00		96.9	85.9-128			
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.8	89-129			
o-Xylene	1.91	0.050	mg/kg	2.00		95.5	86.1-125			
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	71.5-134			
LCS Dup (4090622-BSD1)				Prepared: ()6-Sep-24 A	nalyzed: (7-Sep-24			
Benzene	1.97	0.050	mg/kg	2.00		98.4	82.8-130	1.28	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128	0.108	15.9	
Ethylbenzene	1.94	0.050	mg/kg	2.00		96.9	85.9-128	0.0405	16	
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.7	89-129	0.0759	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.4	86.1-125	0.0639	16.7	
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	88.2-128	0.0720	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

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Reported:

RPD



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

%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220

Surrogate: 1-Chlorooctadecane

Project: REMUDA 500 BATTERY Project Number: 03C1558456

Spike

50.0

Source

25-Sep-24 08:29 Project Manager: DAVID MCINNIS

110

49.1-148

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

55.0

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4090623 - General Prep - Organics										
Blank (4090623-BLK1)				Prepared: (06-Sep-24 A	Analyzed: 0	7-Sep-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		89.9	48.2-134			
Surrogate: I-Chlorooctadecane	49.0		mg/kg	50.0		98.1	49.1-148			
LCS (4090623-BS1)				Prepared &	& Analyzed:	06-Sep-24				
GRO C6-C10	189	10.0	mg/kg	200		94.4	66.4-123			
DRO >C10-C28	185	10.0	mg/kg	200		92.6	66.5-118			
Total TPH C6-C28	374	10.0	mg/kg	400		93.5	77.6-123			
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	48.2-134			
Surrogate: I-Chlorooctadecane	57.2		mg/kg	50.0		114	49.1-148			
LCS Dup (4090623-BSD1)				Prepared &	& Analyzed:	06-Sep-24				
GRO C6-C10	184	10.0	mg/kg	200		92.0	66.4-123	2.48	17.7	
DRO >C10-C28	182	10.0	mg/kg	200		90.8	66.5-118	1.94	21	
Total TPH C6-C28	366	10.0	mg/kg	400		91.4	77.6-123	2.21	18.5	
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	48.2-134			

mg/kg

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Celey D. Keine



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. Keine

Celey D. Keene, Lab Director/Quality Manager

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

QUESTIONS

Action 386908

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	386908
ı		Action Type:
ı		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418053192
Incident Name	NAPP2418053192 REMUDA 500 BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	REMUDA 500 BATTERY
Date Release Discovered	06/27/2024
Surface Owner	State

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

faterial(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 37 BBL Recovered: 0 BBL Lost: 37 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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QUESTIONS, Page 2

Action 386908

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road	OGRID: 5380 Action Number:
Midland, TX 79707	386908
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ilation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
Lhereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor

Email: colton.s.brown@exxonmobil.com

Date: 09/25/2024

I hereby agree and sign off to the above statement

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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 3

Action 386908

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	386908
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

o the appropriate district office no later than 90 days after the release discovery date.
V.
Yes
on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Yes
No
nilligrams per kilograms.)
896
30.5
30.5
0
0
ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
07/15/2024
09/06/2024
09/06/2024
2220
330
2220
330
he time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 4

Action 386908

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	386908
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement

Name: Colton Brown
Title: Environmental Advisor

Email: colton.s.brown@exxonmobil.com

Date: 09/25/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 386908

QUESTIONS	/ -
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QUEST	ΓΙΟΝS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	•
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each	of the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Active production equipment and process piping including separators
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2777
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	617
	diately under or around production equipment such as production tanks, wellheads and pipelines where on may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	REMUDA 500 TANK BATTERY [fAB1834557126]
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
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface not relieve the operator of responsibility for compliance with any other federal, state, or

local laws and/or regulations.

Name: Colton Brown Title: Environmental Advisor I hereby agree and sign off to the above statement Email: colton.s.brown@exxonmobil.com Date: 09/25/2024

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QUESTIONS, Page 6

Action 386908

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	386908
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	378909	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/06/2024	
What was the (estimated) number of samples that were to be gathered	30	
What was the sampling surface area in square feet	6000	

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

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CONDITIONS

Action 386908

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	386908
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of SW01 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	10/21/2024