

October 14, 2024

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

Re: Closure Request

James Ranch Unit DI 2 CTB Incident Number nAPP2420431165

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities at the James Ranch Unit DI 2 CTB (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water onto the facility pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2420431165.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 25, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.3619408°, -103.8380243°) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On July 20, 2024, a swedge and clamp washed out resulting in the release of approximately 49 barrels (bbls) of produced water onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 5 bbls of released produced water were recovered. XTO reported the release to the NMOCD via Notification of Release (NOR) on July 22, 2024, and submitted an Initial C-141 Application (C-141) on July 23, 2024. The release was assigned Incident Number nAPP2420431165.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On April 14, 2023, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-4731, located approximately 270 feet south of the Site was drilled utilizing a truck-mounted air rotary rig. The boring was drilled to a total depth of 106 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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc Closure Request James Ranch Unit DI 2 CTB



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 106 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 dry wash, located approximately 5,150 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On July 25, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Four assessment soil samples (SS01 through SS04) were collected around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

On August 7, 2024, Ensolum personnel returned to the Site to complete delineation activities. Delineation boreholes BH01 and BH02 were advanced via hand auger to maximum depths of 3 feet bgs within the release extent to assess the vertical extent of the release. Delineation soil samples were collected from each borehole at depths ranging form 0.5 feet to 3 feet bgs. Soil from the delineation boreholes was field screeded for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

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

XTO Energy, Inc Closure Request James Ranch Unit DI 2 CTB



Laboratory analytical results for assessment soil samples SS01 through SS04 indicated that all COC concentrations were compliant with the Closure Criteria and the strictest Table I Closure Critieria, successfully defining the lateral extent of the release. Laboratory analytical results for delineation soil samples for BH01 and BH02 indicated all COC concentrations were compliance with Site Closure Criteria but exceeded the strictest Table I Closure Criteria for chloride in the top 4 feet. Based on visible staining in the release area and laboratory analytical results from within the release, excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES

On September 24 and 25, 2024, Ensolum personnel were at the Site to oversee excavation activities. Waste-containing soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the delineation soil samples. Excavation activities were performed using a backhoe and transport vehicle. The excavation occurred on the well pad near production equipment and XTO safety policy restricts soil disturbing activities within a 2-foot radius of any active production equipment. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride. Following removal of impacted soil to the maximum extent possible, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS07 were collected from the floor of the excavation at depths ranging from 3 feet to 4 feet bgs. Confirmation sidewall soil samples SW01 and SW05 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 1,198 square feet. A total of approximately 160 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Landfill in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation floor soil samples FS01 through FS07 and sidewall soil samples SW01 through SW05, collected at depths ranging from ground surface to 4 feet bgs indicated that all COC concentrations were compliant with the Closure Criteria. Additionally, the confirmation sidewall soil samples collected from ground surface to 4 feet bgs indicated all COC concentrations were compliant with the strictest Table I Closure Criteria and confirmed the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the July 20, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. In addition, all waste-containing soil was removed from the top 4 feet of the release area. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Due to the

XTO Energy, Inc Closure Request James Ranch Unit DI 2 CTB



release occurring onto the pad surface, final reclamation of the pad surface will be completed during pad abandonment.

Excavation of waste-containing soil has mitigated potential impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2420431165.

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

Sincerely, **Ensolum, LLC**

Tracy Hillard Project Engineer

Toughthank

Tacoma Morrissey Associate Principal

Mouissey

cc: Colton Brown, XTO

Kaylan Dirkx, XTO

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix A Referenced Well Nec

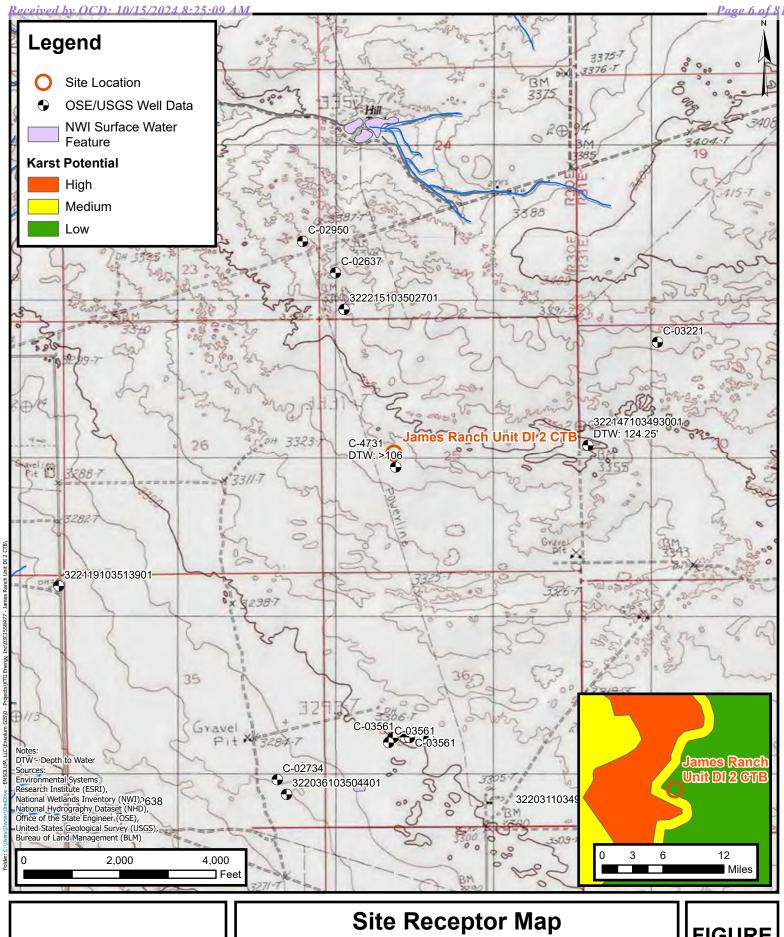
Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

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



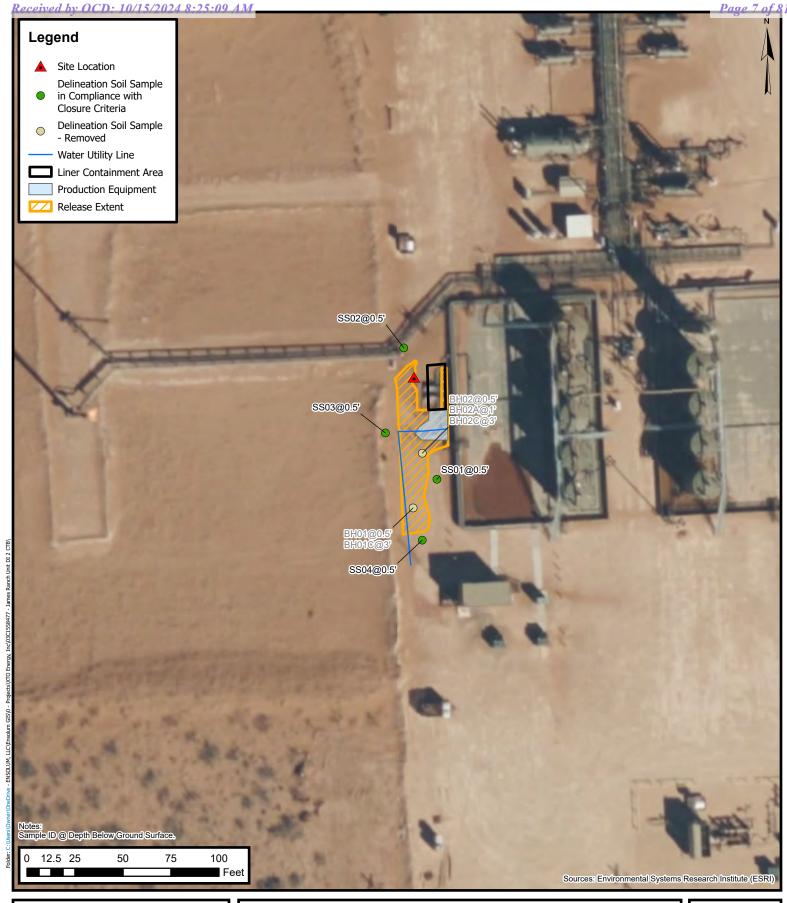
FIGURES





XTO Energy, Inc James Ranch Unit DI 2 CTB Incident Number: nAPP2420431165 Unit K, Section 25, T 22S, T 30E Eddy County, New Mexico FIGURE 1

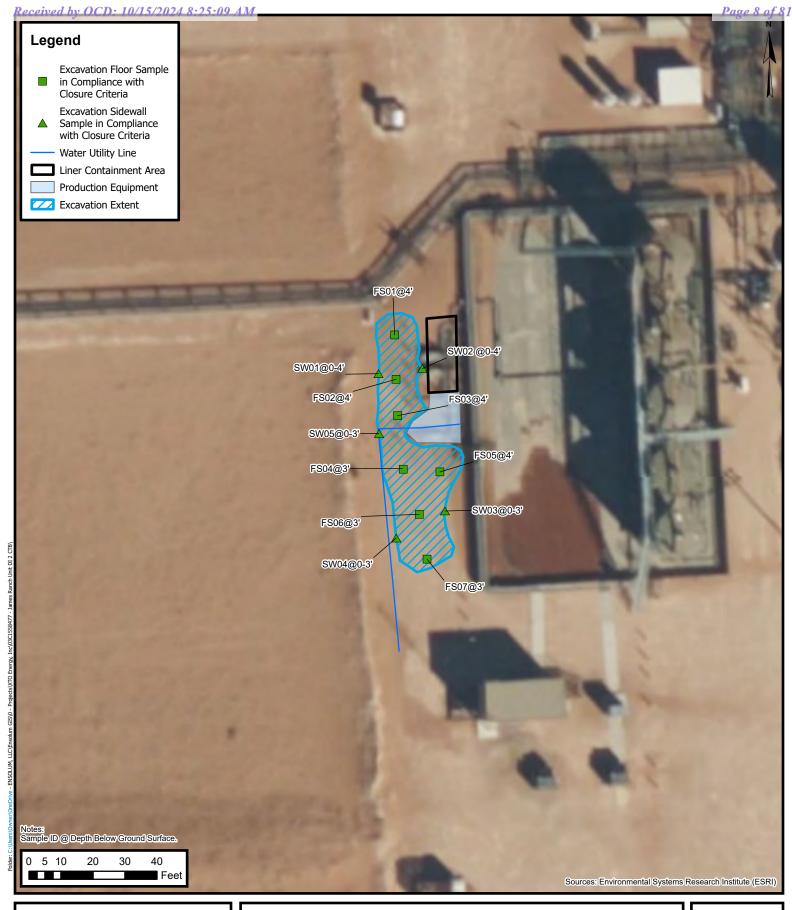
Released to Imaging: 10/29/2024 11:02:47 AM





Delineation Soil Sample Locations

XTO Energy, Inc James Ranch Unit DI 2 CTB Incident Number: nAPP2420431165 Unit K, Section 25, T 22S, T 30E Eddy County, New Mexico FIGURE 2





Excavation Soil Sample Locations

XTO Energy, Inc James Ranch Unit DI 2 CTB Incident Number: nAPP2420431165 Unit K, Section 25, T 22S, T 30E Eddy County, New Mexico FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS James Ranch Unit DI 2 CTB 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	1,000	2,500	20,000
				Asse	essment Soil Sa	mples	1			
SS01	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SS02	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS03	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS04	07/25/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
				Deli	neation Soil Sa	mples				
BH01	08/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16,400
BH01C	08/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
BH02	08/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,800
BH02A	08/07/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	15,000
BH02C	08/07/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
				Exc	avation Soil Sa	mples				
FS01	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,000
FS02	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,560
FS03	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
FS04	09/25/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS05	09/25/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS06	09/25/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS07	09/25/2024	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS James Ranch Unit DI 2 CTB 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 Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SW01	09/25/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SW02	09/25/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW03	09/25/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
SW04	09/25/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW05	09/25/2024	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

FIIE IVO. (-473)

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

		ineer website: http://www.ose.state.nm.us/
Purpose: Pollution Control And/Or Recovery		
☐ Exploratory Well (Pump test)	Construction Site Works Dewaterin	
☐ Monitoring Well	☐ Mine Dewatering	
A separate permit will be required	to apply water to benefici	ial use regardless if use is consumptive or nonconsumptive.
■ Temporary Request - Request	ed Start Date:	Requested End Date:
Plugging Plan of Operations Subn	nitted? Yes No	
. APPLICANT(S)		
. APPLICANT(S)		
		Name
Name:		Name: Tacoma Morrissey
Name: Garrett Green Contact or Agent:	check here if Agent	Tacoma Morrissey Contact or Agent: check here if Agent
Name: Garrett Green Contact or Agent: XTO Energy, Inc	check here if Agent	Tacoma Morrissey Contact or Agent: check here if Agent Ensolum
Name: Garrett Green Contact or Agent: XTO Energy, Inc Mailing Address:	check here if Agent	Tacoma Morrissey Contact or Agent: check here if Agent
Name: Garrett Green Contact or Agent: XTO Energy, Inc	check here if Agent	Tacoma Morrissey Contact or Agent: check here if Agent Ensolum Mailing Address:
Name: Garrett Green Contact or Agent: XTO Energy, Inc Mailing Address: B104 E. Greene St. City: Carlsbad State:	check here if Agent Zip Code: 88220	Tacoma Morrissey Contact or Agent: check here if Agent Ensolum Mailing Address: 601 N. Marienfield St. Suite 400 City:
Name: Garrett Green Contact or Agent: XTO Energy, Inc Mailing Address: 3104 E. Greene St. City:	Zip Code:	Tacoma Morrissey Contact or Agent: check here if Agent Ensolum Mailing Address: 601 N. Marienfield St. Suite 400 City: Midland State: Zip Code:

DSE DTT APR 5 2023 PM1110

FOR OSE INTERNAL USE	Application for	Permit, Form WR-07	7, Rev 11/17/16	
File No.: (2473)	Trn. No.:	145536	Receipt No.:	2.45642
Trans Description (optional):	NON			
Sub-Basin: CUB		PCW/LOG Due I	Date: 4-10	0-2024
				Doge 1 of

2. WELL(S) Describe the well(s) applicable to this application.

☐ NM State Plane (NAD83) ☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone		JTM (NAD83) (Mete]Zone 12N]Zone 13N	Ers) Lat/Long (WGS84) (to the nearest 1/10 th of second)			
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name			
C-4731 Pod 1 BH01	-103.837980°	32.361936°	Unit K, Sec 25, T22S, R30E			
NOTE: If more well location Additional well descriptions Other description relating well Located on the southwest con	to common landmark	Yes No (s, streets, or other:	WR-08 (Attachment 1 – POD Descriptions) If yes, how many			
Well is on land owned by: BLN	A					
		ell needs to be des	cribed, provide attachment. Attached? Yes No			
Approximate depth of well (fe	et): 110	C	Outside diameter of well casing (inches): NA			
Oriller Name: SCARBOROUG	GH DRILLING INC	0	Driller License Number: 1188			
approximately 72 hours, to allogroundwater in the soil boring.	on of a soil boring to a	pproximately 110 fe	eet below ground surface. The soil boring will be left open for I water interface probe will be utilized to confirm depth to 32.361936°, -103.837980° and will confirm regional depth to			
vater.			OSE DII APR 5 2023 PM 1:10			

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-U731

Tm No.: 745536

Page 2 of 3

Exploratory: Include a	Pollution Control and/or Recovery: ☐ Include a plan for pollution	Construction De-Watering:	Mine De-Watering: ☐ Include a plan for pollution
description of any proposed	control/recovery, that includes the following:	☐ Include a description of the proposed dewatering	control/recovery, that includes the following: A description of the need for mine
pump test, if applicable.	A description of the need for the pollution control or recovery operation.	operation, The estimated duration of	dewatering. ☐ The estimated maximum period of time
	☐ The estimated maximum period of time for completion of the operation.	the operation, The maximum amount of	for completion of the operation.
	☐ The annual diversion amount. ☐ The annual consumptive use	water to be diverted,	☐ The source(s) of the water to be diverted ☐ The geohydrologic characteristics of the
	amount.	A description of the need for the dewatering operation,	aquifer(s). The maximum amount of water to be
	The maximum amount of water to be diverted and injected for the duration of	and, A description of how the	diverted per annum. The maximum amount of water to be
	the operation. The method and place of discharge.	diverted water will be disposed of.	diverted for the duration of the operation. The quality of the water.
Monitoring: Include the	☐ The method of measurement of water produced and discharged.	Ground Source Heat Pump: Include a description of the	The method of measurement of water diverted.
reason for the monitoring	☐ The source of water to be injected. ☐ The method of measurement of	geothermal heat exchange project,	☐ The recharge of water to the aquifer. ☐ Description of the estimated area of
well, and,	water injected. The characteristics of the aquifer.	☐ The number of boreholes for the completed project and	hydrologic effect of the project. The method and place of discharge.
duration of the planned	☐ The method of determining the resulting annual consumptive use of	required depths.	An estimation of the effects on surface
monitoring.	water and depletion from any related	☐ The time frame for constructing the geothermal	water rights and underground water rights from the mine dewatering project.
	stream system. Proof of any permit required from the	heat exchange project, and, The duration of the project.	☐A description of the methods employed to estimate effects on surface water rights and
	New Mexico Environment Department. An access agreement if the	☐ Preliminary surveys, design data, and additional	underground water rights. Information on existing wells, rivers,
	applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	information shall be included to provide all essential facts relating to the request.	springs, and wetlands within the area of hydrologic effect.
		KNOWLEDGEMENT	
I, We (name of			
affirm that the fo	Proregoing statements are true to the best of (int Name(s)	
	and a libbar to	my, our) knowledge and belief.	
Applicant Signa	ture	Applicant Signature	
Application original		OF THE STATE ENGINEER	OSE DIT APR 5 2023 PM L: 1.0
	Action		West Office of State of the
	Deproved	This application is:	denied
provided it is n	not exercised to the detriment of any others the trimental to the public welfare and further su	naving existing rights, and is not co	ontrary to the conservation of water in New
	16		
Witness my han	d and seal this day of	April 20 23.	for the State Engineer,
Mix	Le A. Hamman P.E	·, State Engineer	
Ву:	KParell	Kashi	Jap Parekh
Signature	2 m	older I	
Title: Wate	er Kesburces Mana	WIEW 1	

Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: Tm No.:

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04731 POD1 File Number: C 04731
Trn Number: 745536

page: 1

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
 - 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
 - 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

 The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04731 POD1 File Number: C 04731 Trn Number: 745536

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04731 POD1 must be completed and the Well Log filed on or before 04/09/2024.

IT IS THE PERMITEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 04/05/2023 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 10 day of Apr A.D., 2023

Mike A. Hamman, P.E. , State Engineer

By: KASHYAP PAREKH

Trn Desc: C 04731 POD1 File Number: C 04731
Trn Number: 745536

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080)

March 21, 2023

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re:

James Ranch Unit DI BS2A Section 25, T22S-R30E 30-015-45402 Eddy County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time XTO Permian Operating LLC will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type I/II neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha Morgan Crisha A. Morgan

Certified Environmental Protection Specialist

QGE DIT APR 5 2023 PM1:09

From: Green, Garrett J

To: Aimee Cole; Tacoma Morrissey; Kalei Jennings; Ben Belill

Cc: Baker, Adrian

Subject: NMOSE Permit Permission

Date: Wednesday, May 18, 2022 5:56:20 PM

[**EXTERNAL EMAIL**]

NMOSE,

The following Ensolum personnel have permission to submit and sign NMOSE well permitting documents on behalf of XTO Energy, Inc.

Ashley Ager Aimee Cole Tacoma Morrissey Kalei Jennings Ben Belill

Thank you,

Sent from my iPhone

OSE 011 APR 5 2023 PM1:03

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 745536 File Nbr: C 04731

Apr. 10, 2023

GARRETT GREEN
XTO ENERGY, INC
3104 E GREENE ST
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Vanessa Clements Clemnad

(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 745536 File Nbr: C 04731

Apr. 10, 2023

TACOMA MORRISSEY
ENSOLUM
601 N MARIENFELD ST SUITE 400
MIDLAND, TX 79701

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

em Clemud

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Vanessa Clements (575)622-6521

Enclosure

explore

								Sample Name: BH01 (C-4731) Date: 4/14/2023
			AI	C	OI		RA	Site Name: JRU D12 CTB
			N			_ U	IAI	Incident Number:
								Job Number: 03C1558019 and 03C1558049
		LITHOL	OGIO	C / SOIL S	SAMPLING	LOG		Logged By: Peter Van Patten Method: Air Rotary
Coord	inates: 3	2.361936	5,-103	.837980				Hole Diameter: 4" Total Depth: 106'
Comm	ents: No	groundv	vater	encounter	ed while dri	lling; no gro	undwater	after 72 hr
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1	1	N	-	- 1	<u> </u>	SP-SM	Sand (surface sample): dark tan, brown, fine grain, poorly graded, few caliche gravel, no stain, no odor
Dry	-	-	N	-	 	10 	SP-SM	Sand: brownish red, very fine - fine grain, moderately graded, some silt, no stain, no odor
Dry	-	-	N	-	- - -	20 	SP-SM	Sand: pinkish red, very fine-fine grain, moderately graded, silty, no stain, no odor
Dry	-	-	N	-	- - -	30	SP-SM	Sand: brownish red, very fine - fine grain, moderately graded, some silt, no stain, no odor
Dry	-	-	N	-		40	SP-SM	SAA (Same As Above)
Dry	-	-	N	-	- - - -	- _ 50 -	SP-SM	gravel, no stain, no odor SAA
Dry	-	-	N	-	- - -	- _ 60 -	SP-SM	SAA
Dry	-	-	N	-	 	- 70 -	SP-SM	SAA
Dry	-	-	N	-		- 80 -	SP-SM	Sand: pinkish red, very fine - fin grain, moderately graded, trace gypsum crystals, no stain, no odor
Dry	-	-	N	-		- _ 90 -	SP-SM	SAA, increasing gypsum crystals
Dry	-	-	N	-		100	SP-SM	
						_ _ 110 -		TD at 106' below ground surface
					-	120		



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email umbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

Mailing address: 3104 E. Greene St.		County: E	Eddy
City: Carlsbad	State:	New Mexico	Zip code: 88220
Phone number: 575-200-0729	E-mail	garrett.green@exxoni	mobil.com
III. WELL DRILLER INFORMATION:	SCARBOROLL	GH DRILLING INC	
Well Driller contracted to provide plugging services:			3/21/24
New Mexico Well Driller License No.: 1188		Expiration Da	ate: 3/31/24
GPS Well Location: Latitude:	deg,	50 min 16.728	sec NAD 83
GPS Well Location: Latitude: Longitude: 10 Reason(s) for plugging well(s):	deg,	min, 16.728	sec, NAD 83
	deg, l3deg,		90_sec sec, NAD 83 DSE OU APR 5 2023 pm1:03
2) Reason(s) for plugging well(s):	program? No nitored. If the we	_ If yes, please use see	DSE ON APR 5 2023 pm :03
Reason(s) for plugging well(s): Soil boring Was well used for any type of monitoring p what hydrogeologic parameters were more	orogram? <u>No</u> nitored. If the we Environment Depa	_ If yes, please use seell was used to monitor	DSE ON APR 5 2023 pm :03
2) Reason(s) for plugging well(s): Soil boring 3) Was well used for any type of monitoring p what hydrogeologic parameters were mor water, authorization from the New Mexico	orogram? No nitored. If the we Environment Depa wise poor quality	_ If yes, please use seell was used to monitor	OSE OIT APR 5 2023 pm1:03 ction VII of this form to detay contaminated or poor quality prior to plugging.
 Reason(s) for plugging well(s): Soil boring Was well used for any type of monitoring p what hydrogeologic parameters were mor water, authorization from the New Mexico Does the well tap brackish, saline, or other including analytical results and/or laborator 	orogram? No nitored. If the we Environment Departure poor quality by report(s):	_ If yes, please use seell was used to monitor	ose of APR 5 2023 pm; 03 ction VII of this form to detay contaminated or poor quality prior to plugging.

WD-08 Well Plugging Plan Version: July 31, 2019 Page 1 of 5

7)	Inside diameter of innermost casing:inches.
8)	Casing material: Temporary PVC SCH 40
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s): N/A
10)	What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
11)	Was the well built with surface casing? If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well?If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
Note:	ESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method. If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such
as geop	physical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.
Also, it	This planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant. Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
.,	proposed for the well:
	The temporary 2" well material will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged using hydrated bentonite. If groundwater is encountered the boring will be plugged, tremie from bottom to a slurry of Portland Type I/II Neat cement in lifts.
2)	Will well head be cut-off below land surface after plugging? N/A
VI. F	LUGGING AND SEALING MATERIALS:
	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.
1)	For plugging intervals that employ cement grout, complete and attach Table A.
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
3)	Theoretical volume of grout required to plug the well to land surface: 287
4)	Type of Cement proposed: Type I/II
5)	Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
6)	Will the grout be:batch-mixed and delivered to the site
	x mixed on site
	USE DII APR 5 2023 PM1:08

WD-08 Well Plugging Plan Version: July 31, 2019 Page 2 of 5

N/A
N/A VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):
N/A VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):
N/A VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):
N/A VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):
N/A VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):
N/A
NAME OF ONLY AND PARTY.
VIII. SIGNATURE: I. Tacoma Morrissey I. say that I have carefully read the foregoing Well Plugging Plan of
I, <u>lacoma Morrissey</u> , say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State
Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well
Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.
Mariiseu 3/31/23
3/31/23
Signature of Applicant Date
IX. ACTION OF THE STATE ENGINEER:
This Wall Physics Plan of Occasions in
This Well Plugging Plan of Operations is:
Approved subject to the attached conditions.
Not approved for the reasons provided on the attached letter.
1. the a -1
Witness my hand and official seal this 10th day of April , 2023
Mike A. Nammer P.E., New Mexico State Engineer
TORRE H. Hamma P.E., New Mexico State Engineer
By: K. Parekh KASHYAP PAREKH W.R. M. I
KASHYAP PAREKH
I O M T
B 74 B 1600 1 A 9 1907 A C 7 II
WD-08 Well Plugging Plan

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 - most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	onsite
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

USE DIT APR 5 2023 PML:08

WD-08 Well Plugging Plan Version: July 31, 2019 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	26
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Baroid Hole Plug

OSE DIT APR 5 2023 PM1:08



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521

Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: XTO Energy Inc. NMOSE Permit Number: C-4731-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4731-POD1	2.0	110.0	100.0	31° 21' 42.9696"	103° 50' 16.728'

Specific Plugging Conditions of Approval for Well located in Eddy County.

- 1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- **2. Ground Water encountered:** The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 287.0 gallons. The total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.
- 3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 26.10 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
- 4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for plugging the well.
- 5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.
- 6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces

the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

- 7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 4. and 5. of these Specific Conditions of Approval.
- 8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 10. NMOSE witnessing the plugging of the soil boring will not be required.
- 11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 10th day of April 2023

Mike A. Hamman, P.E. State Engineer

K. Parel

By:

Kashyap Parekh Water Resources Manager I





Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

April 10, 2023

XTO Energy Inc. 3104 E. Greene Street Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well No. C-4731-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php. Failure to submit to the Well Plugging Plan of Operations in the correct form will result in delay of issuance of the permit.

Sincerely,

Kashyap Parekh

Water Resources Manager I



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc James Ranch Unit DI 2 CTB nAPP2420431165





Photograph: 1 Date: 7/25/2024

Description: Staining and point of release

View: Nortwest

Photograph: 2 Date: 7/25/2024

Description: Staining in release extent

View: Southwest





Photograph: 3 Date: 8/7/2024

Description: Delineation activties

View: North

Photograph: 4 Date: 9/25/2024

Description: Excavation activties

View: North



Photographic Log

XTO Energy, Inc James Ranch Unit DI 2 CTB nAPP2420431165





Photograph: 5 Date: 9/25/2024

Description: Final excavation extent

View: Southeast

Photograph: 6 Date: 9/25/2024

Description: Final excavation extent

View: North





Photograph: 7 Date: 9/25/2024

Description: Final excavation extent

View: West

Photograph: 8 Date: 9/25/2024

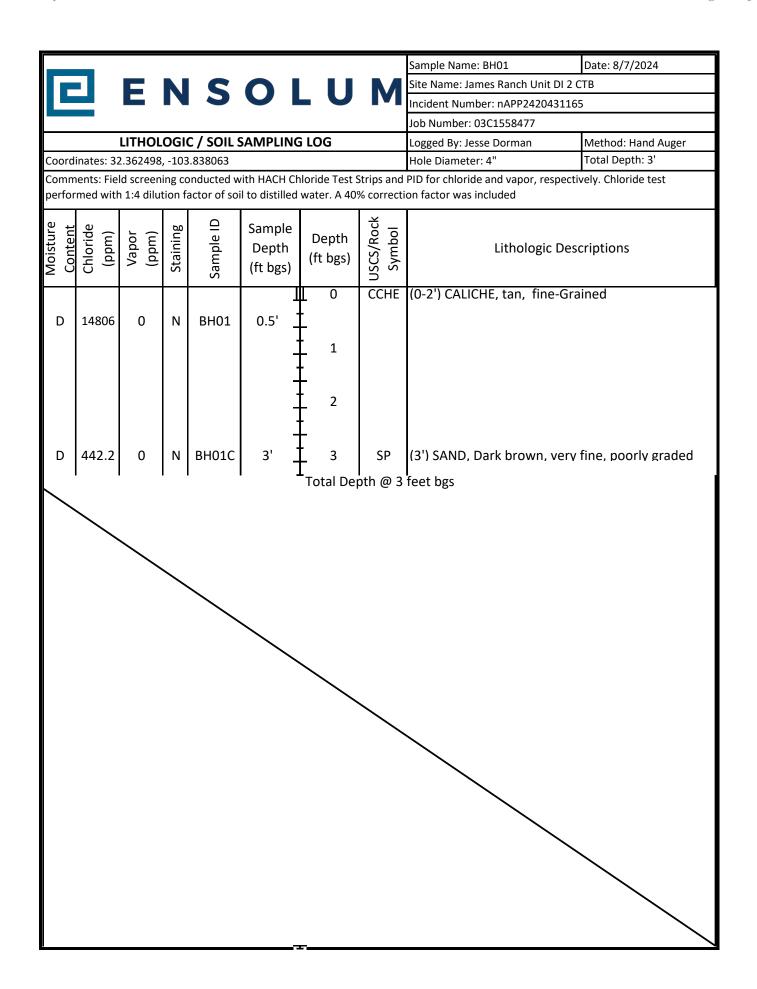
Description: Final excavation extent

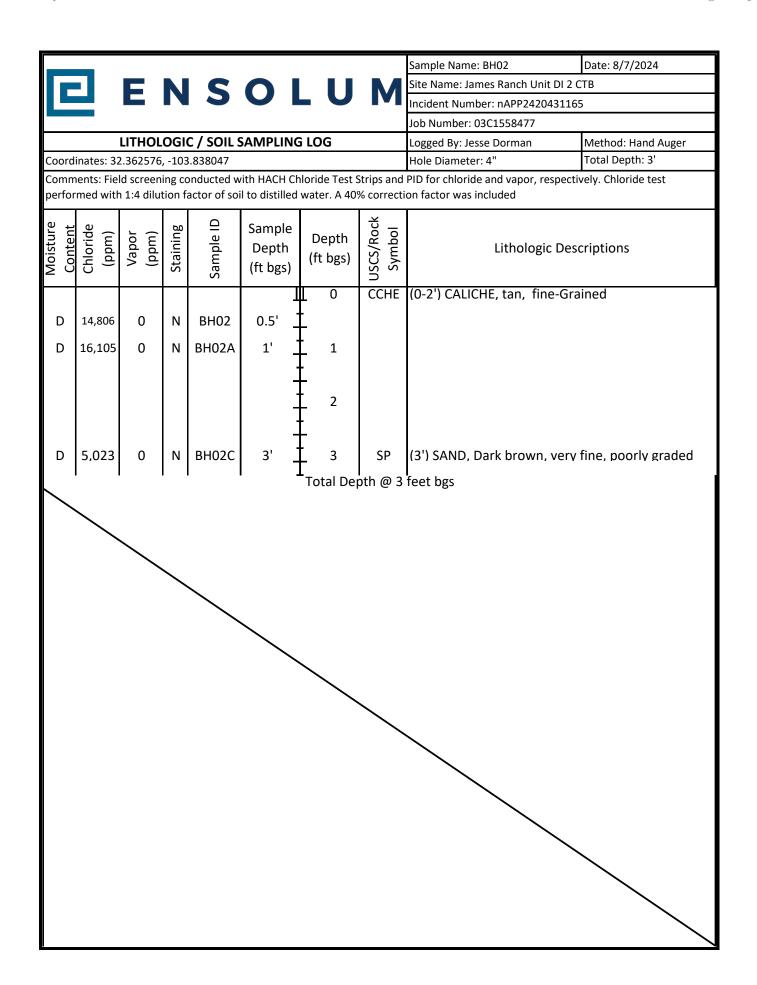
View: South



APPENDIX C

Lithologic Soil Sampling Logs







APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 02, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU DI 2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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 TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/25/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: JRU DI 2 CTB Sampling Condition: Cool & Intact Project Number: 03C1558477 Sample Received By: Alyssa Parras

Project Location: XTO 32.3619408-103.8380243

Sample ID: SS 01 0.5' (H244537-01)

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	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	192	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 07/30/2024 Sampling Date: 07/25/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: JRU DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.3619408-103.8380243

mg/kg

Sample ID: SS 03 0.5' (H244537-02)

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	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	32.0	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 07/30/2024 Sampling Date: 07/25/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: JRU DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: XTO 32.3619408-103.8380243

mg/kg

Sample ID: SS 04 0.5' (H244537-03)

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	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	96.0	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

Relinquished By:

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

Observed Temp. °C

Sample Condition
Cool Intact

Lyes Pes
No No

CHECKED BY:
(Initials)

Thermometer ID #113
Correction Factor -0.5°C

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C

thillard @ ensolum. com Incident # = nAPP2420 431165

Time:

Received By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

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Company Name: Ensolum, LLC	Ensolum, LLC												_	8	BILL TO					A	K	Z	ANALYSIS		ᇛ	0	REQUEST	ST						
roject Manager	roject Manager: Tracy Hillard	30							Н	ы	P.O. #:	#		- 1			_	\dashv	\dashv	\dashv		\dashv		\neg						\neg				
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hone #: 575	Phone #: 575 9373906	Fax #:								D	dd	res	S:3	0	Address: 3104 E. Curen st	150																		
roject #: 03 (Project #: 03 C 155 ₹ 1 77	Project Owner:								0	₹	2	2	×	city: Car is bend		_		_	_														
roject Name:	Project Name: JRU DI 2	CTB								co	tat	e: _	5	2	State: NM Zip: 83 220	02		_		_														
roject Location	Project Location: 32,3619408	8,-103.8380243	37	0	N	7	W			ס	Phone #:	ne	*																					
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FOR LAB USE ONLY					П	11	₹ A	MATRIX	∃×I	1	7	ᇑ	PRESERV.	2	SAMPLING		10	X																
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LEASE NOTE: Liability and nailysee. All claims includin srvice. In no event shall Ca ffiliates or successors arisin	LEASE NOTE: Lability and Damages. Cardinat's liability and client's exclusive remoty/or any claim arising whether based in contract or fort, shall be limited to the amount paid by the client to the national paid by the client of the policable nailyses. 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 enview, in no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, fillates or successors arising out of or related to the performance of services hereunder by Cardinal, mountriess of whether such claim is based upon any of the above stated masons or otherwise.	ent's exclusive remedy for a cause whatsoever shall be or quental damages, including a of services hereunder by C	ny claim deamed without ardinal	arisin waive limita	d und	ess n busin	base nade ess in	in with	ing autions	nd re	ort, st of us	d by o	ardi	nal w	o the amount paid by thin 30 days after co office incurred by client above stated reason.	by the client for the completion of the ent, its subsidiaries sons or otherwise.	applicable s.																	
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August 02, 2024

TRACY HILLARD ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU DI 2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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 TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/25/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: JRU DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Alyssa Parras

Project Location: XTO 32.3619408-103.8380243

Sample ID: SS 02 0.5' (H244538-01)

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	07/31/2024	ND	2.00	100	2.00	8.77	
Toluene*	<0.050	0.050	07/31/2024	ND	1.97	98.4	2.00	9.42	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.08	104	2.00	9.88	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	6.11	102	6.00	9.73	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 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	176	16.0	08/01/2024	ND	448	112	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	07/31/2024	ND	187	93.7	200	4.47	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	184	91.9	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Frence



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CARDINAL Laboratories 101 East Marland, Hobbs, NM, 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Tracy Hilland	and	BILL TO	ANALYSIS REQUEST
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pler - UPS - Bus - Other: Corrected Temp. *C	Sample	CHECKED BY: Turnaround Time:	Standard Bacteria (only) Sample Condition
CRM-006 R 3.2 10/07/21	□ No □ No	Cardinal Correction Factor -0.5°C	Nes Oves



August 14, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JAMES RANCH UNIT DI 2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/08/24 13:45.

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

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

Reported: 08/14/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Project Location: XTO 32.3619408-103.8380243

Sample ID: BH 01 .5' (H244784-01)

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	08/08/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	08/09/2024	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	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	66.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreene



Analytical Results For:

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

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

Reported: 08/14/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: XTO 32.3619408-103.8380243

mg/kg

Sample ID: BH 01 C 3' (H244784-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 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	48.0	16.0	08/09/2024	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	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

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

Reported: 08/14/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Project Location: XTO 32.3619408-103.8380243

Sample ID: BH 02 .5' (H244784-03)

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	08/08/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	08/09/2024	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	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Cool & Intact

Tamara Oldaker

Analytical Results For:

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

Received: 08/08/2024 Reported: 08/14/2024

 08/08/2024
 Sampling Date:
 08/07/2024

 08/14/2024
 Sampling Type:
 Soil

Project Name: JAMES RANCH UNIT Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243

mg/kg

JAMES RANCH UNIT DI 2 CTB Sampling Condition: 03C1558477 Sample Received By:

Analyzed By: JH

Sample ID: BH 02 A 1' (H244784-04)

BTEX 8021B

DIEX OUZID	ıııg,	K9	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	15000	16.0	08/09/2024	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	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Analytical Results For:

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

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

Reported: 08/14/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: XTO 32.3619408-103.8380243

ma/ka

Sample ID: BH 02 C 3' (H244784-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2024	ND	2.13	107	2.00	1.13	
Toluene*	<0.050	0.050	08/08/2024	ND	2.12	106	2.00	0.466	
Ethylbenzene*	<0.050	0.050	08/08/2024	ND	2.14	107	2.00	0.578	
Total Xylenes*	<0.150	0.150	08/08/2024	ND	6.38	106	6.00	0.0268	
Total BTEX	<0.300	0.300	08/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	5600	16.0	08/09/2024	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	08/08/2024	ND	198	99.0	200	7.92	
DRO >C10-C28*	<10.0	10.0	08/08/2024	ND	194	97.0	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	08/08/2024	ND					
Surrogate: 1-Chlorooctane	80.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Notes and Definitions

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

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Project Manager: Tracy Hillard Company Name: Sampler Name: Jesse Dorman Project Location: Project Name: Project #: Phone #: Address: 3122 National Parks Hwy 45147CH Relinquished By: analyses. All claims including those for neg service. In no event shall Cardinal be liable Relinquished By: FOR LAB USE ONLY LEASE NOTE: Liability and Dar Sampler - UPS - Bus - Other: Lab I.D. Delivered By: (Circle One) Carlsbad 575-937-3906 : 03C1558477 9 James Ranch Unit DI 2 CTB BhodA 3501 shod 6 Show Sample I.D. 32.3619408, -103.8380243 Ensolum, LLC 401C regligence and any other cause what Observed Temp. Project Owner: Fax #: State: NM Sample Depth B-8-2 Time: (feet) 10 10 Zip: 88220 0.5 0.0 (G)RAB OR (C)OMP XTO 4 Received Received By: # CONTAINERS GROUNDWATER Cool Intact
Pres Pres
No No WASTEWATER MATRIX SOIL OIL SLUDGE P.O. #: Fax #: State: NM Zip: 88220 city: Carlsbad Address: 3104 E. Attn: Amy Ruth Company: XTO Energy Inc OTHER Phone #: ACID/BASE PRESERV ICE / COOL CHECKED BY: BILL TO (Initials OTHER STAY DATE incurred by client, its subsidiaries SAMPLING Green St paid by the client for the H Verbal Result: ☐ Yes ☐ No Add'I Phone #:
All Results are emailed. Please provide Email address: 31.6 13.10 Turnaround Time: REMARKS: 3.45 TIME THillard@ensolum.com Cost Center: Pending tion of the applicable neter ID #113 BTEX TPH Standard CHLORIDE TMorrissey@ensolum.com 0,60 ANALYSIS Incident ID: nAPP2420431165 Cool Intact Bacteria (only) Sample Condition Cool Intact Observed Temp. REQUEST Corrected Temp. °C റ്



September 27, 2024

TRACY HILLARD
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: JAMES RANCH UNIT DI 2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 13:48.

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. Keene

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

 Received:
 09/26/2024
 Sampling Date:
 09/25/2024

 Reported:
 09/27/2024
 Sampling Type:
 Soil

Reported: 09/27/2024 Sampling Type: Soil
Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Project Location: XTO 32.3619408-103.8380243

Sample ID: FS 01 4 (H245845-01)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	4000	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	81.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Reported: 09/27/2024

Project Name: JAMES RANCH UNIT DI 2 CTB

Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243 Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: FS 02 4 (H245845-02)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	4560	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Project Location: XTO 32.3619408-103.8380243

Sample ID: FS 03 4 (H245845-03)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	4160	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243

Sample ID: FS 04 3 (H245845-04)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	192	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

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

Received: 09/26/2024 Reported: 09/27/2024

Project Name: JAMES RANCH UNIT DI 2 CTB

Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243

ma/ka

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 05 4 (H245845-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	256	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Analyzed By: 14

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Analytical Results For:

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

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Project Location: XTO 32.3619408-103.8380243

Sample ID: FS 06 3 (H245845-06)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	192	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Reported: 09/27/2024

Project Name: JAMES RANCH UNIT DI 2 CTB

Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 3 (H245845-07)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	32.0	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Reported:

09/27/2024 JAMES RANCH UNIT DI 2 CTB

Project Name: Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243 Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-4 (H245845-08)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	80.0	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact
Project Number: 03C1558477 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: XTO 32.3619408-103.8380243

Sample ID: SW 02 0-4 (H245845-09)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	128	16.0	09/27/2024	ND	400	100	400	3.92	
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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Sampling Date: 09/25/2024

Reported: 09/27/2024 Sampling Type: Soil

Project Name: JAMES RANCH UNIT DI 2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558477 Tamara Oldaker

Project Location: XTO 32.3619408-103.8380243

Sample ID: SW 03 0-3 (H245845-10)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 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	400	16.0	09/27/2024	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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Reported:

09/27/2024 JAMES RANCH UNIT DI 2 CTB

Project Name: Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243 Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW 04 0-3 (H245845-11)

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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 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	224	16.0	09/27/2024	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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 09/26/2024 Reported: 09/27/2024

Project Name: JAMES RANCH UNIT DI 2 CTB

Project Number: 03C1558477

Project Location: XTO 32.3619408-103.8380243

Sampling Date: 09/25/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 05 0-3 (H245845-12)

RTFY 8021R

BIEX 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	09/26/2024	ND	1.82	91.0	2.00	2.20	
Toluene*	<0.050	0.050	09/26/2024	ND	1.93	96.7	2.00	1.16	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.97	98.6	2.00	0.692	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.92	98.7	6.00	0.501	
Total BTEX	<0.300	0.300	09/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	208	16.0	09/27/2024	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	09/27/2024	ND	206	103	200	0.499	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	216	108	200	0.122	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

Applyzod By: 14

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Notes and Definitions

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

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

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

The state of the s	Company Maine. Ensolulli, LLC			01117	THE RESIDENCE OF THE PARTY OF T			
Project Manager:	er: Trocy Hillard	0		P.O. #:		An	ANALYSIS REC	REQUEST
Address: 3122	Address: 3122 National Parks Hwy			Company: XTO Energy Inc.	ov Inc.			
City: Carlsbad		State: NM	Zip: 88220	Attn: Amy Ruth				
Phone #: 575	90k 15h	Fax #:		Address: 3104 E Green St	en St			
Project #: 030	0301548477	Project Owner: XTO	ar: XTO	City: Carlsbad				
Project Name: James Ranch	James Ranch Unit	ALS CLE		State: NM Zip:88220	20			
Project Location	Project Location: 32.3619408	FH20868, 201-	7					
Sampler Name:	Joshua Box (en)			Fax #:				
FOR LAB USE ONLY	/		MATRIX	SERV.	SAMPLING			
Lab I.D. Haysays	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorides TPH	BTEX		
1	FSOI	2	/ XX	X	A O DII	8		
ul.	F507	2			1115			
20	P.504	N _2			1120			
9	8005	2			1205			
e	4400	W			1240			
1	5907	n	N 1 3	M 4.52.74	X N 925	X-		
								Search Search
PLEASE NOTE: Liability and Damages analyses. All claims including those for	Damages. Cardinal's liability and cli those for negligence and any other	lient's exclusive remedy for any cla	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim illiging whether because an experience of the client by the client for the annual paid by the client for the	r fort, shall be limited to the amount pai	by the client for the			
affiliates or successors arising Relinquished By:	affiliates or successors arising out of or related to the performanc Relinquished By?	sequental damages, including to of services hereunder by Ca	equential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Damanic Dam	erruptions, loss of use, or loss of profits incurred by or such claim is based upon any of the above stated re-	completion of the applicable lient, its subsidiaries, sons or otherwise.			
Ch.	W.	7-36-24 Time: 2115	Manuel	Mall		Please provide Er	Add'l Phone #: de Email address:	
Relinquished By:		Date:	Received By:	James M.	8 6	70431165	ey@ensolum.com	Pમીરાબી 31165
Delivered By: (Circle One)		beerved Temp. °C	Sample		Turnaround Time:	bra	Bacteria (only) S	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:		Corrected Tamp. C 1.9	1.9 Cool Intact		Thermometer ID #113- #/42	Rush	Cool Intact	Observed Temp. °C

Relinquished By:

Time; 348

ed by client, its sub

All Results are emailed. Please provide Email address:

ON O

@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com

Verbal Result: ☐ Yes

THILLOUGH

Incident: WAPP 24 204 3165

Date: Time:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed Temp.

20.5

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

mometer ID

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

Yes Yes
No Corrected Temp. °C

Cost Center:

റ് റ്

Cool Intact
Ares Ares
No No

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

Relinquished By

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

analyses. All claims including those for PLEASE NOTE: Liability and Sampler Name: Project Name: James Kanch Project #: Phone #: 575 937 3906 Project Location: City: Carlsbad Address: 3122 National Parks Hwy Project Manager: Company Name: Ensolum, LLC FOR LAB USE ONLY Lab I.D. 0301558477 0 5W01 SW03 50 MS W02 Somos Sample I.D. 32,36/9408 Se Se m+ 72 2 -105,6380243 2-0 0-3 Project Owner: XTO Fax #: 2 2 Depth State: NM 2 (feet) CIR (G)RAB OR (C)OMP Zip: 88220 # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER Fax #: Phone #: State: NM Attn: Amy Ruth Company: XTO Energy Inc. City: Carlsbad Address: 3104 E Green St P.O. #: ACID/BASE: PRESERV ICE / COOL OTHER BILL TO Zip:88220 12.37 14:50 DATE SAMPLING nt paid by the client for the 5141 125 non 138 450 TIME tion of the ap lon Le ANALYSIS REQUEST

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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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 392619

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	392619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420431165
Incident Name	NAPP2420431165 JAMES RANCH UNIT DI 2 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	James Ranch Unit DI 2 CTB
Date Release Discovered	07/20/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Motor Produced Water Released: 49 BBL Recovered: 5 BBL Lost: 44 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	10 inch to 8 inch swedge and Vic clamp washed out. Causing a spill outside of containment

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

QUESTIONS, Page 2

Action 392619

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 392619 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
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 second content of the con	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.
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of 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 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 ases 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 it does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com

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Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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QUESTIONS, Page 3

Action 392619

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	392619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be pr	rovided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil cont	tamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	d Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	4560	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0	
GRO+DRO (EPA SW-846 Method 8015M)	0	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	07/25/2024	
On what date will (or did) the final sampling or liner inspection occur	09/25/2024	
On what date will (or was) the remediation complete(d)	09/25/2024	
What is the estimated surface area (in square feet) that will be reclaimed	1198	
What is the estimated volume (in cubic yards) that will be reclaimed	160	
What is the estimated surface area (in square feet) that will be remediated	d 1198	
What is the estimated volume (in cubic yards) that will be remediated	160	
These estimated dates and measurements are recognized to be the best guess or calculate	ation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adj	justed 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.

District I

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QUESTIONS, Page 4

Action 392619

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	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: 10/15/2024

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.

Released to Imaging: 10/29/2024 11:02:47 AM

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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 392619

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	392619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 No submission

District I

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Remediation Closure Request

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

QUESTIONS, Page 6

Action 392619

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	392619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	384930
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2024
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	1500

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1198
What was the total volume (cubic yards) remediated	160
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1198
What was the total volume (in cubic yards) reclaimed	160
Summarize any additional remediation activities not included by answers (above)	"Site assessment and excavation activities were conducted at the Site to address the July 20, 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Due to the release occurring onto the pad surface, final reclamation of the pad surface will be completed during pad abandonment. Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2420431165."

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents or final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

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QUESTIONS, Page 7

Action 392619

QUESTIONS	(continued)
QUESTIONS!	COHUHUCU/

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	392619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 392619

CONDITIONS

Operator:	OGRID:
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6401 Holiday Hill Road	Action Number:
Midland, TX 79707	392619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	10/29/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	10/29/2024