

ENSOLUM

By NVelez at 7:09 am, Apr 24, 2025

REVIEWED

 Continue monthly O&M schedule as stated in the system adjustments and recommendations section of report.
 Submit next quarterly report by July 15, 2025.

March 25, 2025

New Mexico Oil Conservation Division

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

Re: First Quarter 2025 – Solar SVE System Update James Ranch Unit #10 Battery Eddy County, New Mexico XTO Energy, Inc. NMOCD Incident Numbers NAB1535754357, NAB1521257588, and NAB1904653072

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), presents this *First Quarter 2025* - *Solar SVE System Update* report summarizing the solar soil vapor extraction (SVE) system performance at the James Ranch Unit #10 Battery (Site), located in Unit H, Section 1, Township 23 South, Range 30 East in Eddy County, New Mexico (Figure 1). The SVE system has operated since May 27, 2022, to remediate residual subsurface soil impacts at the Site. This report summarizes Site activities performed in January and March of 2025 for the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

Currently, a VariSun Direct Solar SVE system is installed at the Site. This system consists of a 6.2 horsepower (HP) Pentair SST65 high efficiency regenerative blower capable of producing 250 cubic feet per minute (cfm) flow and a vacuum of 110 inches of water column (IWC). The system is powered by 12, 415-watt solar modules capable of producing 5 kilowatts (KW) of electricity. A motor controller automatically starts the system as soon as sunlight is available and increases the electrical output to the blower as solar power increases throughout the day.

Ten SVE wells (SVE01 through SVE06 and SVE-PT-01 through SVE-PT-04) are currently installed at the Site, as depicted on Figure 2. In order to target total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) soil impacts at different depth intervals, the screened intervals of the SVE wells were installed in shallow, medium, and deep zones. Specifically, SVE wells SVE01, SVE02, SVE03, and SVE04 target shallow zone impacts and are screened at depths between 5 feet and 20 feet below ground surface (bgs). SVE wells SVE-PT-02, SVE-PT-03, and SVE-PT-04 target medium zone impacts and are screened between 15 feet and 30 feet bgs. SVE wells SVE05, SVE06, and SVE-PT-01 target deep zone impacts and are screened at depths between 25 feet and 65 feet bgs.

SUMMARY OF SVE OPERATIONS

During the first quarter of 2025, Ensolum personnel performed routine operation and maintenance (O&M) visits to verify that the system was operating as designed and to perform any required

maintenance. In accordance with the approved *Revised Remediation Work Plan – SVE System* prepared by LT Environmental, Inc. (LTE, dated October 30, 2019), O&M inspections were performed in January and March of 2025 during this time period. A February 2025 O&M visit could not be conducted. Field notes taken during O&M visits are included as Appendix A.

During the first guarter of 2025, vapor extraction was applied to all SVE wells except for SVE03 and SVE06 (as recommended in the Second Quarter 2023 - Solar SVE System Update) to remove hydrocarbon impacts from the impacted zones at the Site. Between December 11, 2024, and March 12, 2025, approximately 851 total hours of nominal daylight were available for the solar SVE system to operate. Available nominal daylight hours are based on estimates by the National Oceanic and Atmospheric Administration's (NOAA's) National Weather Service (NWS) for the Site location. Between these dates, the recorded runtime for the system based on the hour meter reading was 543.6 hours, equating to a runtime efficiency of 63.9 percent (%). Runtime for solar SVE systems can be less than the nominal hours due to cloud cover or other adverse weather preventing sufficient sunlight to generate electrical energy through solar conversion. No off alarms were noted on the system telemetry throughout the guarter and the system was running upon arrival at each visit; however, the hour meter ceased operation on February 19, 2025. During the March 12, 2025, O&M event, the system was briefly shut down and subsequently restarted. Following the restart, the hour meter and associated telemetry output resumed normal operation. Table 1 presents the SVE system runtime compared to nominal available daylight hours per month.

VAPOR SAMPLING RESULTS

A first quarter 2025 vapor sample was collected on March 12, 2025. The vapor sample was collected from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the vapor sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar[®] bags and submitted to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as TPH – gasoline range organics (GRO)) and BTEX following Environmental Protection Agency (EPA) Method 8260C.

TVPH concentrations account for the majority contaminant mass and system emissions, with a result of 378 micrograms per liter (μ g/L). In comparison, individual BTEX constituent concentrations ranged from below the laboratory reporting limits up to 23.0 μ g/L in the first quarter of 2025. Table 2 presents a summary of TVPH and BTEX analytical data collected during the sampling events, with the full laboratory analytical reports included in Appendix B.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 2). Based on these estimates, approximately 19,236 pounds (9.62 tons) of TVPH have been removed by the system to date.

SYSTEM ADJUSTMENTS AND RECOMMENDATIONS

During the second quarter of 2025, Ensolum personnel will discontinue extraction from well SVE02 as the PID readings from extraction well SVE02 are significantly lower than the readings from the remaining active extraction wells. Adjustments to system operation will continue to be made in order to maximize mass removal.

Monthly O&M visits will continue to be performed by Ensolum personnel to verify the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following update report.



XTO will continue operating the SVE system until TVPH concentrations decrease to below 1,000 μ g/L for several consecutive quarters following additional system optimization efforts and/or asymptotic conditions are observed. At that time, an evaluation of residual petroleum hydrocarbons will be assessed and further recommendations for remedial actions, if any, will be provided to the NMOCD.

We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely, Ensolum, LLC

Stuart Hyde Senior Managing Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

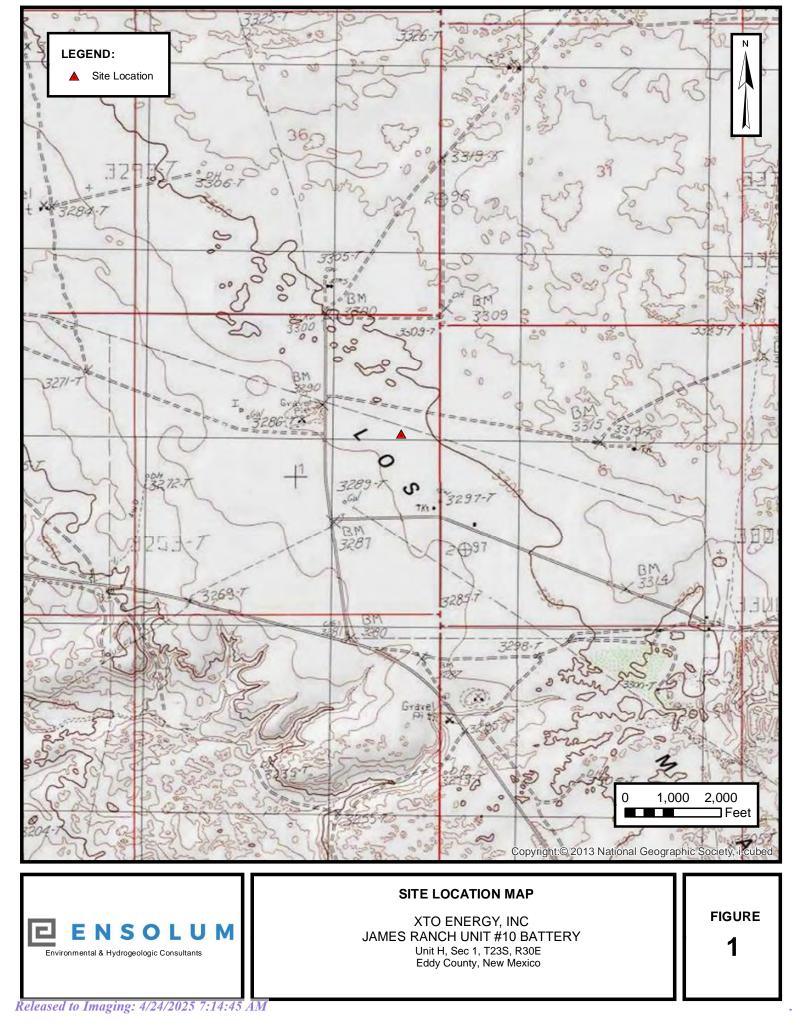
Figure 1	Site Location Map
Figure 2	SVE System Configuration
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Mass Removal and Emissions
Appendix A	Field Notes
Appendix B	Laboratory Analytical Reports & Chain-of-Custody Documentation

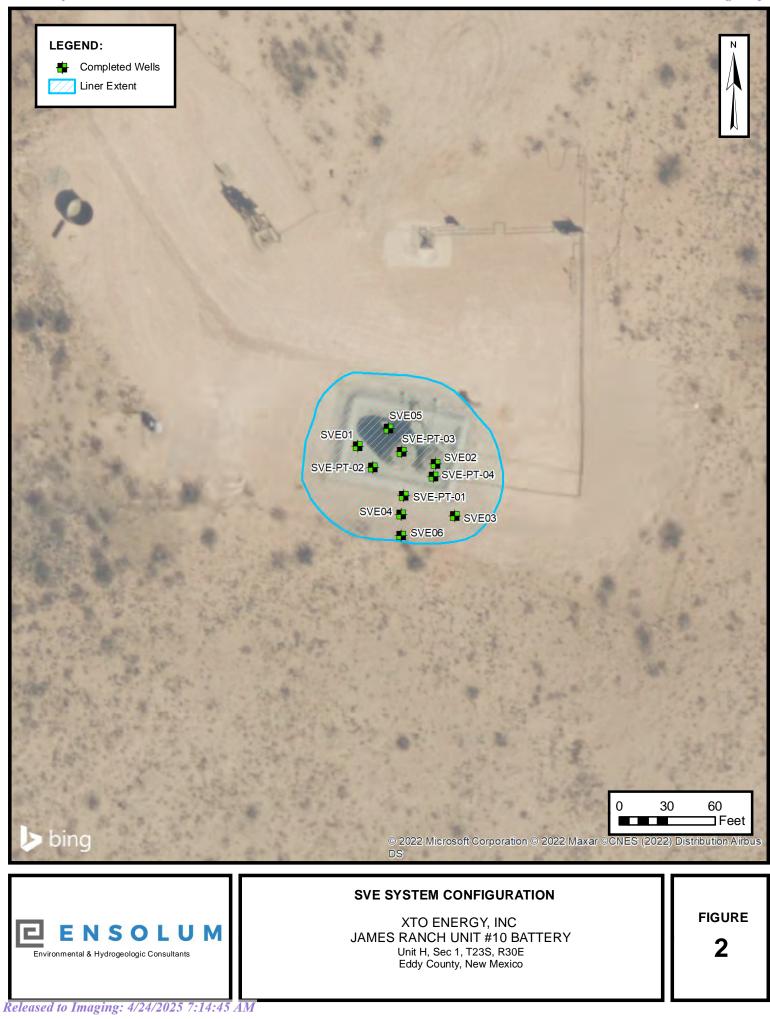




FIGURES

Received by OCD: 3/31/2025 3:20:15 PM







TABLES



TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS James Ranch Unit #10 Battery

XTO Energy

Eddy County, New Mexico

Date	Runtime Meter Hours	Delta Hours
12/11/2024	9,567.0	
3/12/2025	10,110.6	543.6

Time Period	December 11 to December 31, 2024	January 1 through January 31, 2025	February 1 through February 28, 2025	March 1 through March 12, 2025
Days	19	31	28	11
Avg. Nominal Daylight Hours	9	9	10	11
Available Runtime Hours	171	279	280	121

Quarterly Available Daylight Runtime Hours 851

Quarterly Runtime Hours 543.6

Quarterly % Runtime 63.9%

Month	Days	Nominal Daylight Hours	Total Month Hours
January	31	9	279
February	28	10	280
March	31	11	341
April	30	12	360
Мау	31	13	403
June	30	14	420
July	31	14	434
August	31	13	403
September	30	12	360
October	31	11	341
November	30	10	300
December	31	9	279



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS James Ranch Unit #10 Battery XTO Energy Eddy County, New Mexico

	Laboratory Analytical Results									
Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)				
5/27/2022*	679	12.6	40.5	10.0	34.6	12,500				
6/8/2022*	901	21.0	210	9.90	434	35,000				
6/20/2022*	960	21.2	199	10	225	20,200				
7/18/2022*	535	17.1	138	11.1	252	14,400				
8/15/2022*	987	50.0	135	50.0	227	12,300				
9/19/2022	380	10.0	54.9	10.0	110	4,830				
12/19/2022	337	10.0	27.7	10.0	47.1	3,030				
3/15/2023	245	10.0	25.2	10.0	29.4	1,630				
6/14/2023	323	10.0	29.2	10.0	54.9	2,180				
9/20/2023	611	10.0	43.4	10.0	106	5,210				
12/14/2023	278	10.0	30.3	10.0	78.4	3,820				
3/13/2024	358	10.0	29.0	10.0	80.8	2,900				
7/2/2024	260	10.0	16.9	10.0	29.5	870				
9/12/2024	391	10.0	17.4	10.0	36.7	841				
12/11/2024	168	10.0	11.6	10.0	24.4	455				
3/12/2025	235	10.0	10.0	10.0	23.0	378				
Average	478	14.5	64	12.6	112	7,534				

	Flow and Vapor Extraction Summary									
Date	Flow Rate (cfm) ⁽¹⁾	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (Ib/hr)	TVPH (lb/hr)		
5/27/2022	140	0								
6/8/2022	113	1,046,154	1,046,154	0.00710	0.0529	0.00421	0.0990	10.0		
6/20/2022	105	2,047,854	1,001,700	0.00829	0.0803	0.00391	0.129	10.8		
7/18/2022	70	3,572,454	1,524,600	0.00501	0.0441	0.00276	0.0624	4.53		
8/15/2022	98	5,656,098	2,083,644	0.0123	0.0501	0.0112	0.0879	4.90		
9/19/2022	138	8,742,054	3,085,956	0.0155	0.0490	0.0155	0.0870	4.42		
12/19/2022	150	15,449,754	6,707,700	0.00561	0.0232	0.00561	0.0441	2.20		
3/15/2023	141	21,230,472	5,780,718	0.00527	0.0139	0.00527	0.0202	1.23		
6/14/2023	132	29,220,168	7,989,696	0.00494	0.0134	0.00494	0.0208	0.940		
9/20/2023	132	38,728,920	9,508,752	0.00494	0.0179	0.00494	0.0397	1.82		
12/14/2023	149	45,377,598	6,648,678	0.00557	0.0205	0.00557	0.0514	2.52		
3/13/2024 ⁽²⁾	133	50,950,830	5,573,232	0.00497	0.0147	0.00497	0.0396	1.67		
7/2/2024	146	62,898,594	11,947,764	0.00546	0.0125	0.00546	0.0301	1.03		
9/12/2024	149	70,953,534	8,054,940	0.00557	0.0096	0.00557	0.0184	0.48		
12/11/2024	162	78,914,214	7,960,680	0.00606	0.0088	0.00606	0.0185	0.39		
3/12/2025	145	83,643,534	4,729,320	0.00542	0.0059	0.00542	0.0129	0.23		
			Average	0.00680	0.0278	0.00609	0.0508	3.15		

	Mass Removal and Emissions Summary									
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)		
5/27/2022	0	0								
6/8/2022	154	154	1.10	8.17	0.649	15.3	1,549	0.774		
6/20/2022	313	159	1.32	12.8	0.621	20.6	1,723	0.862		
7/18/2022	676	363	1.82	16.0	1.00	22.7	1,644	0.822		
8/15/2022	1,030	354	4.36	17.7	3.97	31.1	1,734	0.867		
9/19/2022	1,403	373	5.77	18.3	5.77	32.4	1,648	0.824		
12/19/2022	2,148	745	4.18	17.3	4.18	32.8	1,643	0.822		
3/15/2023	2,832	683	3.60	9.5	3.60	13.8	840	0.420		
6/14/2023	3,840	1,009	4.98	13.5	4.98	21.0	949	0.474		
9/20/2023	5,041	1,201	5.93	21.5	5.93	47.7	2,190	1.10		
12/14/2023	5,785	744	4.14	15.3	4.14	38.2	1,871	0.936		
3/13/2024	6,483	698	3.47	10.3	3.47	27.7	1,167	0.584		
7/2/2024	7,847	1,364	7.45	17.1	7.45	41.1	1,404	0.702		
9/12/2024	8,748	901	5.02	8.6	5.02	16.6	430	0.215		
12/11/2024	9,567	819	4.96	7.2	4.96	15.2	322	0.161		
3/12/2025	10,111	544	2.95	3.2	2.95	7.0	123	0.061		
	Total Ma	ss Recovery to Date	61.1	196.5	58.7	383	19.236	9.62		

Notes:

(1): average flow calculated from telemetry data beginning 9/21/2023

(2): flow rate for 3/13/2024 calcs based of January and February telemetry plus March site visit due to telemetry issues

cf: cubic feet

cfm: cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

--: not sampled

PID: photoionization detector ppm: parts per million

SVE: soil vapor extraction

TVPH: total volatile petroleum hydrocarbons

gray: laboratory reporting limit used for calculating emissions

*: analytical results differ from those reported in the August 23, 2022 "Solar SVE System Update" due to unit conversion errors

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APPENDIX A

Field Notes

Released to Imaging: 4/24/2025 7:14:45 AM

Page 11 of 29 Received by OCD: 3/31/2025 3:20:15 PM Date 1-20-25 Location Project / Client Ch JRU 10 SNE on site, system running, sunny KO tenk ~1/2 full 13:15 Runtime: 7845hrs Moin Voc: 44 in H2C Flov: 150 cfm Walls (inH2C 32 02 38 PTOY 01 NA 03 05 33 PT03 34 33 34 01 04 NH OE 34 PTOZ 13:50 offsit. . Rite in the Rain Released to Imaging: 4/24/2025 7:14:45 AM

3-12pag212 0 29 Received by OCD: 3/31/2025 3:20:15 PM TRU LO SVE Sitelog: Clarisunny, list wind 9:40 Ion site + JSA, system unity SVE SYStem Run Fime: 10,110.6 hr Flow: 149.5 cfm (170,pm) 234.9 Influent all wells: Effluent all wells: 136.5 (PID rem) 27.9 (In H2O) Vellsi NE 02 292.2 32 SVE PTO4 3009 SUE TO1 32 NA NA SUE03 SVEOS 32. 31 5,69.3 SVEPT03 614 SVEOI 280.5 31 SVE04 32 112.6 SVEOG NA NA 33 137.8 SVE APO 2 10:00 collected 21LTeltor bas from Influent all wells. 10:45 attsite

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APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

Released to Imaging: 4/24/2025 7:14:45 AM

Received by OCD: 3/31/2025 3:20:15 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Stuart Hyde Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 3/13/2025 4:16:47 PM

JOB DESCRIPTION

James Ranch Unit #10 03C1558041 Rural Eddy, NM

JOB NUMBER

890-7803-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization	
Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com Designee for Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440	Generated 3/13/2025 4:16:47 PM

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

SDG: Rural Eddy, NM

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Definitions/Glossary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-7	7803-1
SDG: Rural Edd	ly, NM

Qualifiers

Qualifiers		- 3
GC/MS VOA		
Qualifier	Qualifier Description	_ 4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		- 5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¢.	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Project: James Ranch Unit #10 03C1558041 Job ID: 890-7803-1

Job ID: 890-7803-1

Eurofins Carlsbad

03-1

Job Narrative 890-7803-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/12/2025 12:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Analyte

Client Sample Results

RL

Unit

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Client Sample ID: INFLUENT ALL WELLS Date Collected: 03/12/25 10:00 Date Received: 03/12/25 12:24 Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)

Result Qualifier

Job ID: 890-7803-1 SDG: Rural Eddy, NM

Analyzed

Lab Sample ID: 890-7803-1

Prepared

D

Matrix: Air

Dil Fac

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Gasoline Range Organics	378000		50000	ug/m3			03/13/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140				03/13/25 15:10	1
	latile Organic	Compoun	ds (GCMS)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10000	U	10000	ug/m3			03/13/25 15:10	1
Toluene	<10000	U	10000	ug/m3			03/13/25 15:10	1
Ethylbenzene	<10000	U	10000	ug/m3			03/13/25 15:10	1
m,p-Xylenes	23000		20000	ug/m3			03/13/25 15:10	1
o-Xylene	<10000	U	10000	ug/m3			03/13/25 15:10	1
Xylenes, Total	23000		20000	ug/m3			03/13/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 135				03/13/25 15:10	1

Surrogate Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 Page 20 of 29

Job ID: 890-7803-1 SDG: Rural Eddy, NM

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8260C - Volatile Organic Compounds (GCMS) Matrix: Air

			Percent Surrogate Recovery (Acceptance Limits)	
		BFB		
Lab Sample ID	Client Sample ID	(70-135)		- 5
890-7803-1	INFLUENT ALL WELLS	104		
_CS 860-222186/3	Lab Control Sample	100		
_CSD 860-222186/4	Lab Control Sample Dup	99		
MB 860-222186/7	Method Blank	101		
Surrogate Legend				
BFB = 4-Bromofluorob	benzene (Surr)			

Method: 8260C GRO - Volatile Organic Compounds (GC/MS) Matrix: Air

		Percent Surrogate Recovery (Acceptance Limits)							
			BFB						
	Lab Sample ID	Client Sample ID	(60-140)						
	890-7803-1	INFLUENT ALL WELLS	102						
	LCS 860-222185/4	Lab Control Sample	100						
	LCSD 860-222185/5	Lab Control Sample Dup	102						
	MB 860-222185/7	Method Blank	98		13				
	Surrogate Legend								

BFB = 4-Bromofluorobenzene (Surr)

Eurofins Carlsbad

Lab Sample ID: MB 860-222186/7

QC Sample Results

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Method: 8260C - Volatile Organic Compounds (GCMS)

Matrix: Air Prep Type: Total/NA Analysis Batch: 222186 MB MB Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Benzene <10000 U 10000 ug/m3 03/13/25 14:47 1 Toluene <10000 U 10000 ug/m3 03/13/25 14:47 1 Ethylbenzene <10000 U ug/m3 10000 03/13/25 14:47 1 m,p-Xylenes <20000 U 20000 ug/m3 03/13/25 14:47 1 <10000 U ug/m3 o-Xylene 10000 03/13/25 14:47 1 Xylenes, Total <20000 U 20000 ug/m3 03/13/25 14:47 1 MB MB Limits Surrogate %Recovery Qualifier Prepared Dil Fac Analyzed 70 - 135 4-Bromofluorobenzene (Surr) 101 03/13/25 14:47

Lab Sample ID: LCS 860-222186/3 Matrix: Air Analysis Batch: 222186

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50000	46940		ug/m3		94	70 - 125	
Toluene	50000	48410		ug/m3		97	70 - 125	
Ethylbenzene	50000	51850		ug/m3		104	70 - 125	
m,p-Xylenes	50000	52710		ug/m3		105	70 - 125	
o-Xylene	50000	54000		ug/m3		108	70 - 125	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 135

Lab Sample ID: LCSD 860-222186/4 Matrix: Air Analysis Batch: 222186

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50000	45180		ug/m3		90	70 - 125	4	35
Toluene	50000	46930		ug/m3		94	70 - 125	3	35
Ethylbenzene	50000	49450		ug/m3		99	70 - 125	5	35
m,p-Xylenes	50000	50550		ug/m3		101	70 - 125	4	35
o-Xylene	50000	51730		ug/m3		103	70 - 125	4	35
	LCSD LCSD								

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 135

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-222185/7 Matrix: Air Analysis Batch: 222185						Client Sam	ple ID: Methoo Prep Type: To	
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50000	U	50000	ug/m3			03/13/25 14:24	1

Eurofins Carlsbad

Job ID: 890-7803-1 SDG: Rural Eddy, NM

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

1

QC Sample Results

Job ID: 890-7803-1

SDG: Rural Eddy, NM

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Method: 8260C GRO - Volatile Organic Compounds (GC/MS) (Continued)

		<u> </u>		<u> </u>	/ \		/				
Lab Sample ID: MB 860-2 Matrix: Air Analysis Batch: 222185	22185/7						Clie	ent Sam	ple ID: M Prep Ty		
,											
		MB MB									
Surrogate	%Reco			_			P	repared	Analyz		Dil Fac
4-Bromofluorobenzene (Surr)		98	60 - 140						03/13/25	14:24	1
Lab Sample ID: LCS 860-	222185/4					Clie	nt Sar	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Air								•	Prep Ty		
Analysis Batch: 222185											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			500000	456100		ug/m3		91	57 - 134		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		60 - 140								
Lab Sample ID: LCSD 860	0_222185/5					Client Sa	mnlo	ID: Lak	o Control	Sample	
Matrix: Air	0-222100/0						inpic	ID. Lat	Prep Ty		
Analysis Batch: 222185									перту	pe. 101	
Analysis Daten. 222105			Spike		LCSD				%Rec		RPD
Analyte			Added	-	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			500000	487800	Quaimer	ug/m3		98	57 - 134	7	35
Gasoline Range Organics			500000	407000		ug/ms		90	57 - 154	1	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		60 - 140								
. ,											

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Eurofins Carlsbad

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3/13/2025

QC Association Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Lab Control Sample

Lab Control Sample Dup

GC/MS VOA

LCS 860-222186/3

LCSD 860-222186/4

Analysis Batch: 222185

Analysis Batch: 222	185					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-7803-1	INFLUENT ALL WELLS	Total/NA	Air	8260C GRO		
MB 860-222185/7	Method Blank	Total/NA	Air	8260C GRO		5
LCS 860-222185/4	Lab Control Sample	Total/NA	Air	8260C GRO		
LCSD 860-222185/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO		
Analysis Batch: 222	2186					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-7803-1	INFLUENT ALL WELLS	Total/NA	Air	8260C		8
MB 860-222186/7	Method Blank	Total/NA	Air	8260C		

Total/NA

Total/NA

Air

Air

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Job ID: 890-7803-1 SDG: Rural Eddy, NM

8260C

8260C

Lab Chronicle

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Client Sample ID: INFLUENT ALL WELLS Date Collected: 03/12/25 10:00 Date Received: 03/12/25 12:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260C		1	5 mL	5 mL	222186	03/13/25 15:10	KLV	EET HOU	1
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	222185	03/13/25 15:10	KLV	EET HOU	

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Job ID: 890-7803-1 SDG: Rural Eddy, NM

Lab Sample ID: 890-7803-1 Matrix: Air

Matrix: Air

5 6

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Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ram	Identification Number	Expiration Date
exas	NELA	\P	T104704215	07-01-26
3	s are included in this rep does not offer certificatio		not certified by the governing authori	ty. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Air	Benzene	
8260C		Air	Ethylbenzene	
8260C		Air	m,p-Xylenes	
8260C		Air	o-Xylene	
8260C		Air	Toluene	
8260C		Air	Xylenes, Total	
8260C GRO		Air	Gasoline Range Organics	

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Job ID: 890-7803-1 SDG: Rural Eddy, NM

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-7803-1 SDG: Rural Eddy, NM

lethod	Method Description	Protocol	Laboratory
260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU
Protocol Re SW846 =	ferences: "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods",	Third Edition, November 1986 And Its Upda	ies.
Laboratory	References:		
EET HOU	= Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)2	240-4200	

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 Job ID: 890-7803-1 SDG: Rural Eddy, NM

Lab Sample ID	Client Sample ID	Matrix	Collected Received	
890-7803-1	INFLUENT ALL WELLS	Air	03/12/25 10:00 03/12/25 12:24	



Released to

AIR SAMPLING CHAIN OF CUSTODY

Xenco Job #:

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Clien	t/Project Inf	ormation			AIR	Samplin	g Equipr	ment li	nform	ation	Α	nalysi	is Req				
ompany Name: Ensolum					TYPE			σ	p								
oject Contact: Stuart Hyde					o			fiel	fiel								
mail: shyde@ensolum.com Ph.No.: 337-257-8307					Vap		Canister ID Flow Regulator ID	Canister Pressure in field ("Hg) Start	in Lin	ہے ا					- 1		
Project Name & No.: James Ranch Unit #10, 03C1558041				= Soil Vapor bient	sure				iste) La								
te Location: Rural Eddy, NM					SV = Soi = Ambient	•	latc	res	res	Can ''Hg		-					
ost Center: 1135831001 AFE: EV	V.2019.03368.E)	KP.01			or S A = A	ër IC	nbə	ter Pl	ster Pr Stop	ng (015	021					
mpler(s): ConnorWht.					l = Indoor A	Canister ID	× ×	j) S	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	TVPH(8015)	BTEX(8021)					
b # Field ID/Point of Collection	Start Date	Start Time	Stop Date	Stop Time		Can	<u>0</u>	Canis ("Hg)	Canis ("Hg)	Pres	Γ	BTE				Ren	narks
Influent All Wells	3-12-25	10:00	3-12-25	10:00	sv		_	-	~	_	Х	 X					lunio
	- 1- 1			10				1			^	~					
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														7			
														0000			-
								-			890	-7803 (Chain of	Custod	y		_
							C	fr/									1
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									\square								
Relinquished By:	Date/Time	5/12	(1) Received By:		L	1		quest			-					nformat	tion
Relinquished By:	Date/Time	11/2	(2) Received By:			Z Contra ☐ 7 Day	CULAI			□ Sa Need B		ay	Fed		Othe Trackir		
					2	□ 5 Day		🗆 1 0	Day		-					.g	
Relinquished By:	Date/Time	1 was	(3) Received By:			Special Req Bill to: Amy								arleba	d NM		
Relinquished By:	Date/Time		(4) Received By:			on to: Any		/ Linergy	, 110., /					, an isua	G , N		

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

General Information Phone: (505) 629-6116

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

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

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	NDI		N.S.

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	447398
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS							
Created By	Condition	Condition Date					
nvelez	1. Continue monthly O&M schedule as stated in the system adjustments and recommendations section of report. 2. Submit next quarterly report by July 15, 2025.	4/24/2025					

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Action 447398