



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.

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 quarter 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 quarter 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 (µg/L). In comparison, individual BTEX constituent concentrations ranged from below the laboratory reporting limits up to 23.0 µg/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 Energy, Inc.
First Quarter 2025 - Solar SVE System Update
James Ranch Unit #10 Battery

Page 3

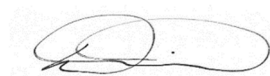
XTO will continue operating the SVE system until TVPH concentrations decrease to below 1,000 µg/L for several consecutive quarters following additional system optimization efforts and/or asymptotic conditions are observed. At that time, an evaluation of residual petroleum hydrocarbons will be assessed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



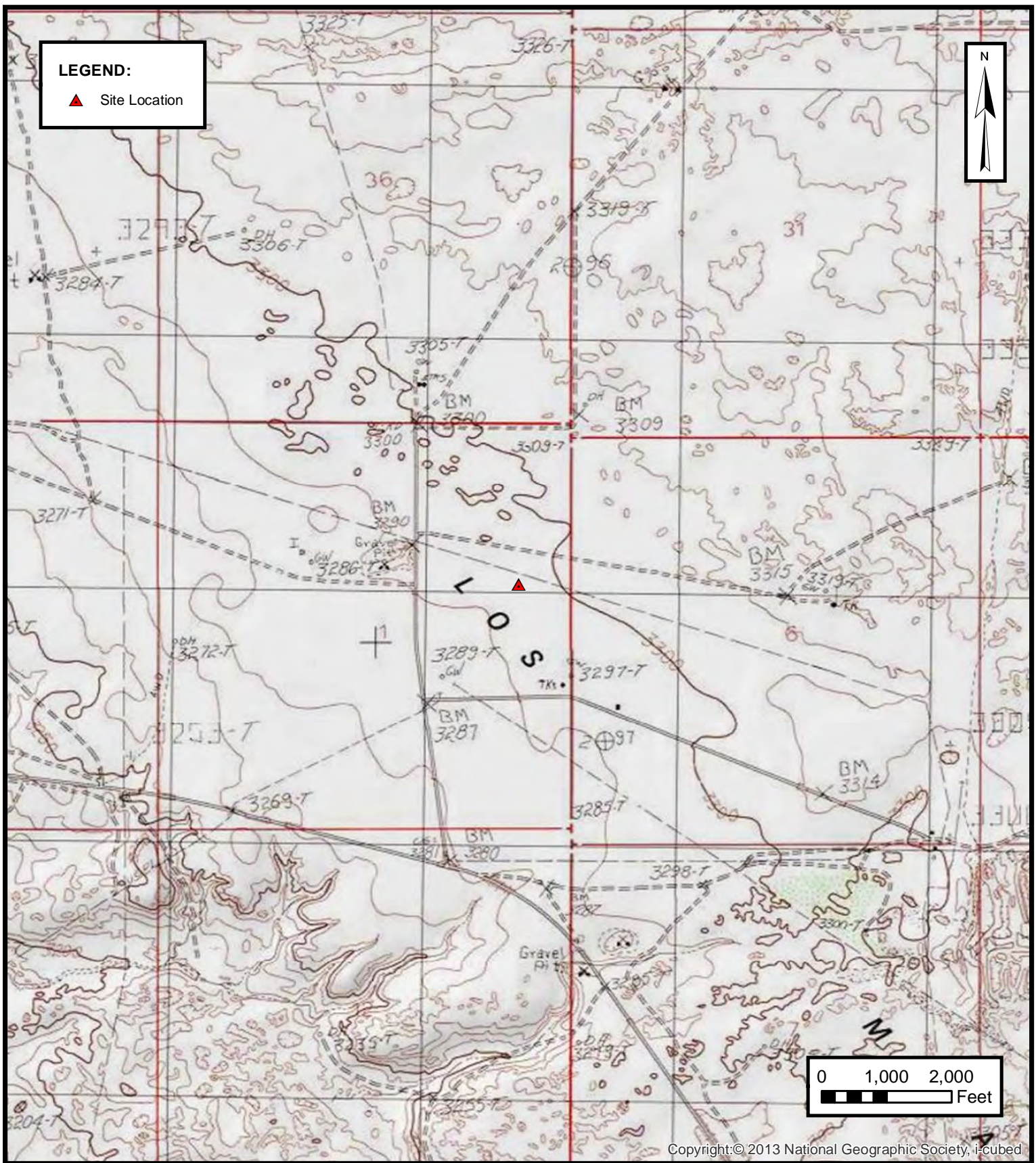
Daniel R. Moir
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(303) 887-2946
dmoir@ensolum.com

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

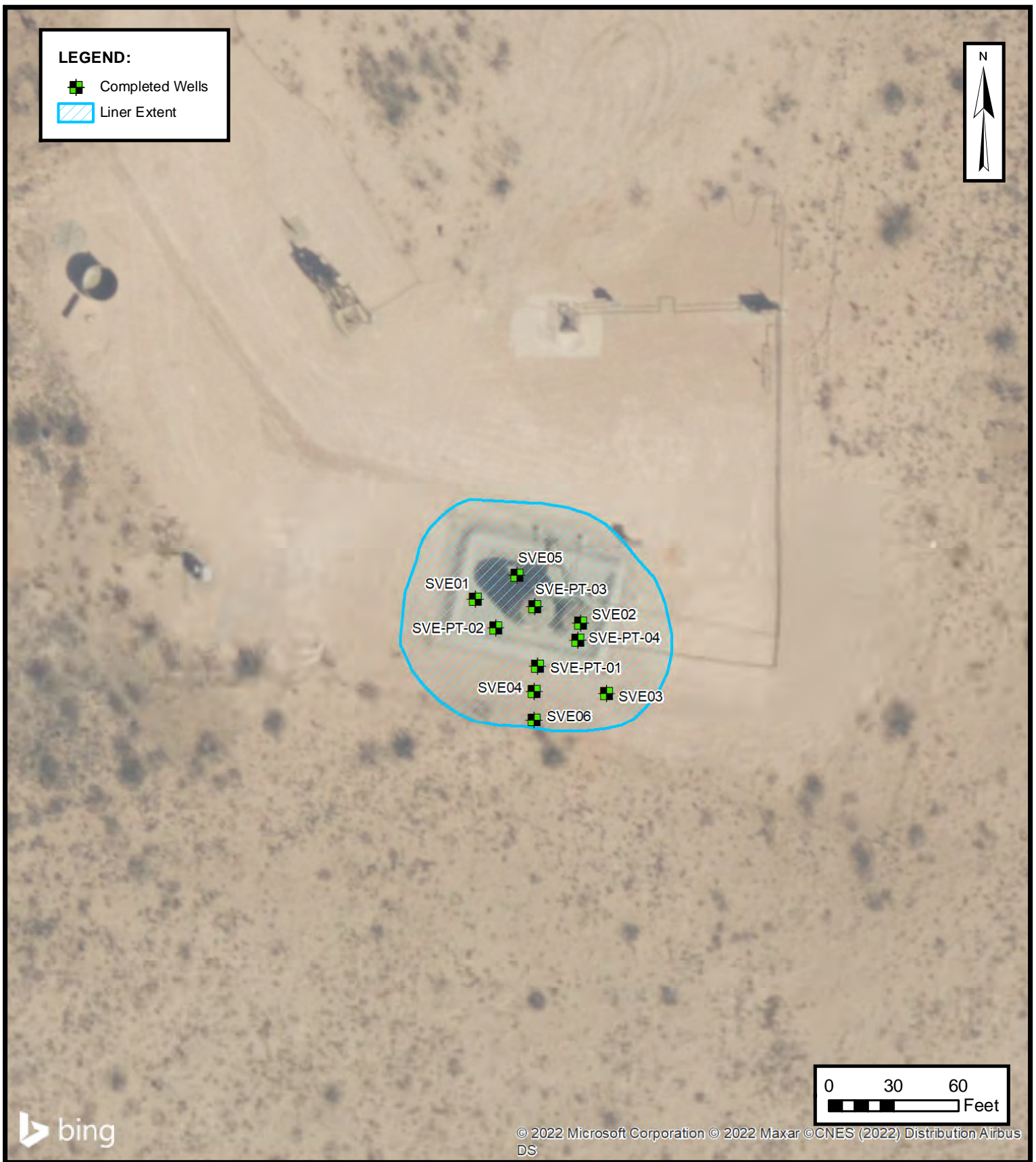


FIGURES

**SITE LOCATION MAP**

XTO ENERGY, INC
 JAMES RANCH UNIT #10 BATTERY
 Unit H, Sec 1, T23S, R30E
 Eddy County, New Mexico

FIGURE**1**

**SVE SYSTEM CONFIGURATION**

XTO ENERGY, INC
JAMES RANCH UNIT #10 BATTERY
Unit H, Sec 1, T23S, R30E
Eddy County, New Mexico

FIGURE**2**



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
May	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 (lb/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 Mass 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 on 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



APPENDIX A

Field Notes

Location _____

Date 1-20-25Project / Client ORMJRV 10 SVECW

13:15 on site, system running, sunny
KO tank ~1/2 full

Runtime: 9845 hrs

Main Voe: 44 in H₂O

Flow: 150 cfm

<u>Wells</u>	<u>(in H₂O)</u>
02	32
PT04	38
01	34
03	N/A
05	33
PT03	34
01	33
04	34
06	N/A
PT02	34

13:50 off site.

CAA

JRU 10 SVE

CL

Site log: Clear/sunny, light wind

9:40 on site + JSA, system running
No tank ~ 1/4 fullSVE System

Run Time: 10,110.6 hr

Main Vac: 39 in H₂O

Flow: 149.5 cfm

Influent all wells:

(PTD ppm)
234.9

Effluent all wells:

136.5

Wells:	(in H ₂ O)	(PTD ppm)
SVE 02	30	27.9
SVE PTO4	32	292.2
SVE PTO1	32	300.9
SVE03	NA	NA
SVE05	32	569.3
SVE PTO3	31	614
SVE01	31	280.5
SVE04	32	112.6
SVE06	NA	NA
SVE PTO2	33	137.8

10:00 collected 2 1L Teller bags from
Influent all wells.

10:45 off site



APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

1

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4

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stuart Hyde

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

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JOB DESCRIPTION

James Ranch Unit #10 03C1558041

Rural Eddy, NM

JOB NUMBER

890-7803-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

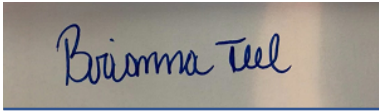
Eurofins Carlsbad

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



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Authorized for release by
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Designee for
Jessica Kramer, Project Manager
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(432)704-5440

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

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

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Definitions/Glossary

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)
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

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.

Eurofins Carlsbad

Client Sample Results

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

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

Client Sample ID: INFLUENT ALL WELLS

Lab Sample ID: 890-7803-1

Date Collected: 03/12/25 10:00

Matrix: Air

Date Received: 03/12/25 12:24

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
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

Method: SW846 8260C - Volatile Organic Compounds (GCMS)

Analyte	Result	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

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

Method: 8260C - Volatile Organic Compounds (GCMS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-135)
890-7803-1	INFLUENT ALL WELLS	104
LCS 860-222186/3	Lab Control Sample	100
LCSD 860-222186/4	Lab Control Sample Dup	99
MB 860-222186/7	Method Blank	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (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

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

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

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

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

Lab Sample ID: MB 860-222186/7

Matrix: Air

Analysis Batch: 222186

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB 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	10000	ug/m3			03/13/25 14:47	1
m,p-Xylenes	<20000	U	20000	ug/m3			03/13/25 14:47	1
o-Xylene	<10000	U	10000	ug/m3			03/13/25 14:47	1
Xylenes, Total	<20000	U	20000	ug/m3			03/13/25 14:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 135		03/13/25 14:47	1

Lab Sample ID: LCS 860-222186/3

Matrix: Air

Analysis Batch: 222186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

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

Lab Sample ID: LCSD 860-222186/4

Matrix: Air

Analysis Batch: 222186

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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 Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50000	U	50000	ug/m3			03/13/25 14:24	1

Eurofins Carlsbad

QC Sample Results

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

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

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

Lab Sample ID: MB 860-222185/7

Matrix: Air

Analysis Batch: 222185

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/13/25 14:24	1

Lab Sample ID: LCS 860-222185/4

Matrix: Air

Analysis Batch: 222185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics	500000	456100		ug/m3		91	57 - 134
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		60 - 140				

Lab Sample ID: LCSD 860-222185/5

Matrix: Air

Analysis Batch: 222185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics	500000	487800		ug/m3		98	57 - 134	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		60 - 140						

QC Association Summary

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

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

GC/MS VOA

Analysis Batch: 222185

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	
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: 222186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7803-1	INFLUENT ALL WELLS	Total/NA	Air	8260C	
MB 860-222186/7	Method Blank	Total/NA	Air	8260C	
LCS 860-222186/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-222186/4	Lab Control Sample Dup	Total/NA	Air	8260C	

Lab Chronicle

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

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

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

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

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

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- 3
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- 5
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- 11
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Accreditation/Certification Summary

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

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

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	07-01-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
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

Method Summary

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

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

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
8260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
5030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU

Protocol References:
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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

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

- 1
- 2
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Setting the Standard since 1990

AIR SAMPLING CHAIN OF CUSTODY

Xenco Job #:

Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

San Antonio, Texas (210-509-3334)
Lubbock, TX (806-794-1296)

Phoenix, Arizona (480-355-0900)
Midland, TX (432-704-5251)
El Paso, TX (915-585-3443)

Page 1 of 1

Client/Project Information				AIR TYPE		Sampling Equipment Information				Analysis Requested		Remarks			
Company Name: Ensolum	Project Contact: Stuart Hyde	Email: shyde@ensolum.com	Ph.No.: 337-257-8307	Project Name & No.: James Ranch Unit #10, 03C1558041	Site Location: Rural Eddy, NM	Canister ID	Flow Regulator ID	Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	TVPH(8015)		BTEX(8021)		
Lab #	Field ID/Point of Collection	Start Date	Start Time	Stop Date	Stop Time	Canister ID	Flow Regulator ID	Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	TVPH(8015)	BTEX(8021)	Remarks		
	Influent All Wells	3-12-25	10:00	3-12-25	10:00	SV									
<div style="display: flex; justify-content: space-between;"> <div> <p>Cost Center: 1135831001 AFE: EW.2019.03368.EXP.01</p> <p>Sampler(s): <i>Consolidation</i></p> </div> <div> <p>890-7803 Chain of Custody</p> </div> </div>															
(1) Relinquished By: <i>Etha</i>						(1) Received By: <i>alcher</i>						Requested TAT		Shipping Information	
(2) Relinquished By:						(2) Received By:						Contract TAT <input checked="" type="checkbox"/> 3 Day <input type="checkbox"/> Same Day		FedEx <input type="checkbox"/> Other: <input type="checkbox"/>	
(3) Relinquished By:						(3) Received By:						7 Day <input type="checkbox"/> 5 Day <input type="checkbox"/> 1 Day <input type="checkbox"/>		UPS <input type="checkbox"/> Tracking No.: <input type="checkbox"/>	
(4) Relinquished By:						(4) Received By:						Special Requests/Instructions: Collected 2-1 Liter Tedlar bags.		Bill to: Amy Ruth, XTO Energy, Inc., Address: 3104 E. Green St. Carlsbad, NM	

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

CONDITIONS

Action 447399

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 447399
	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