

October 16, 2023

Review of the 3Q 2023-Solar SVE system Update: **Content Satisfactory** 1. Continue to operate solar SVE system and conduct all necessary O&M activities. 2. Please submit system updates as required in 2024.

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

Re: Third Quarter 2023 – 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 *Third Quarter 2023* - *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 July, August, and September of 2023 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 at 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 sun power increases throughout the day.

Ten SVE wells are currently installed at the Site as depicted on Figure 2. In order to target soil impacts, including total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX), at different depth intervals, the screened intervals of the SVE wells were constructed 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

Between July and September 2023, 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 at least monthly during this time period. Field notes taken during O&M visits are included in Appendix A.

During the third quarter of 2023, all SVE wells were open and operational (except for SVE03 and SVE06 as recommended in the *Second Quarter 2023 - Solar SVE System Update*) to induce air flow in the impacted zones at the Site. Between June 14 and September 20, 2023, approximately 1,301 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 actual runtime for the system was 1,200.6 hours, equating to a runtime efficiency of 92.3 percent (%). Run time 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. Table 1 presents the SVE system runtime compared to nominal available daylight hours per month.

AIR SAMPLING RESULTS

A third quarter 2023 air emissions sample was collected on September 20, 2023, from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the emission sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The emission 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.

In general, TVPH concentrations account for the majority contaminant mass and system emissions, with a result of 5,210 micrograms per liter (μ g/L). In comparison, BTEX concentrations range from below the laboratory reporting limits up to 106 μ g/L. 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.

Air 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 13,919 pounds (6.96 tons) of TVPH have been removed by the system to date.

SYSTEM ADJUSTMENTS AND RECOMMENDATIONS

Monthly O&M visits will continue to be performed by Ensolum personnel to verify that 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 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.



Sincerely, Ensolum, LLC

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

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

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

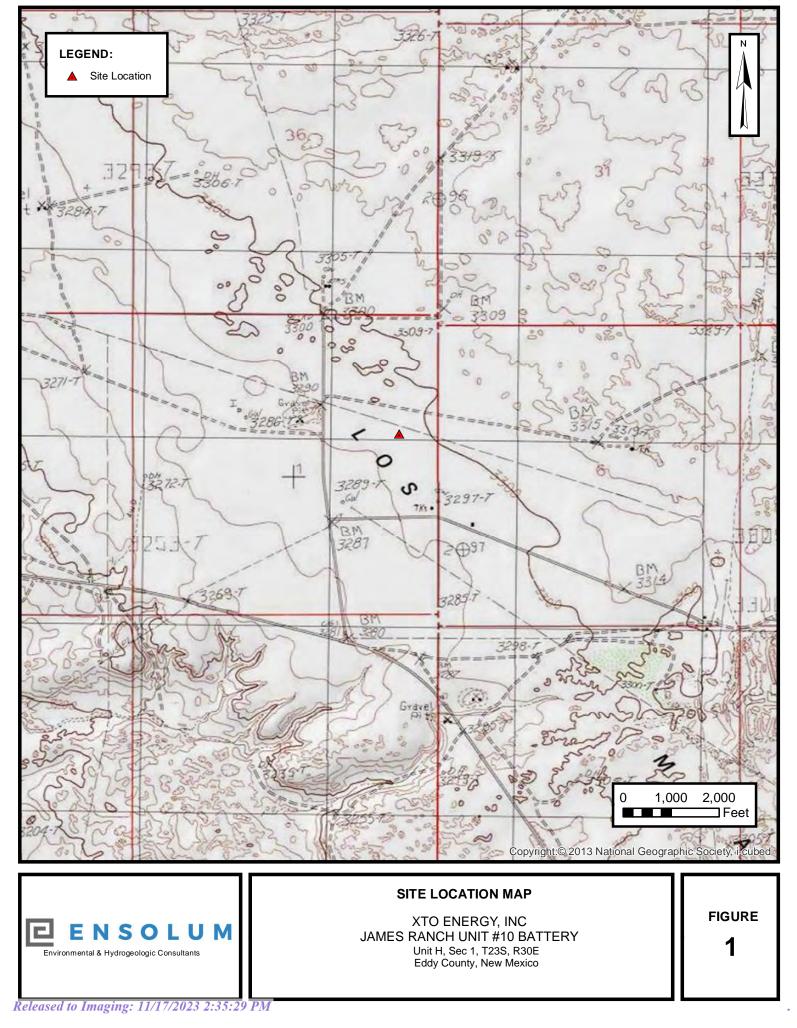
Page 3

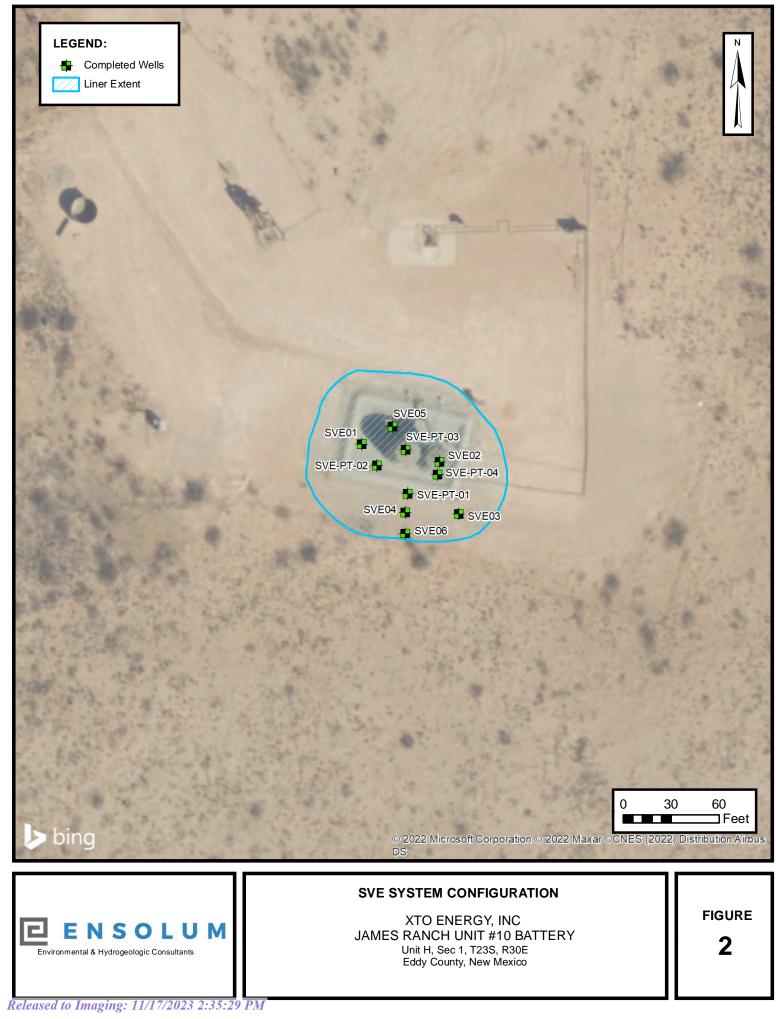


FIGURES

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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
6/14/2023	3,840.4	
9/20/2023	5,041.0	1,200.6

Time Period	June 14 to June 30, 2023	July 1 to July 31, 2023	August 1 to August 31, 2023	September 1 to September 20, 2023
Days	16	31	31	20
Avg. Nominal Daylight Hours	14	14	13	12
Available Runtime Hours	224	434	403	240

Quarterly Available Daylight Runtime Hours 1,301

1,200.6

Quarterly Runtime Hours Quarterly % Runtime 92.3%

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

🔁 E N S O L U M

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
Average	596	17.2	90	14.1	152	11,128

Flow and Vapor Extraction Summary								
Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/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
			Average	0.00766	0.0383	0.00648	0.0656	5.45

Mass Removal and Emissions Summar	у
-----------------------------------	---

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	1.095
	Total Ma	ss Recovery to Date	33.1	134.8	30.7	237	13,919	6.96

Notes:

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



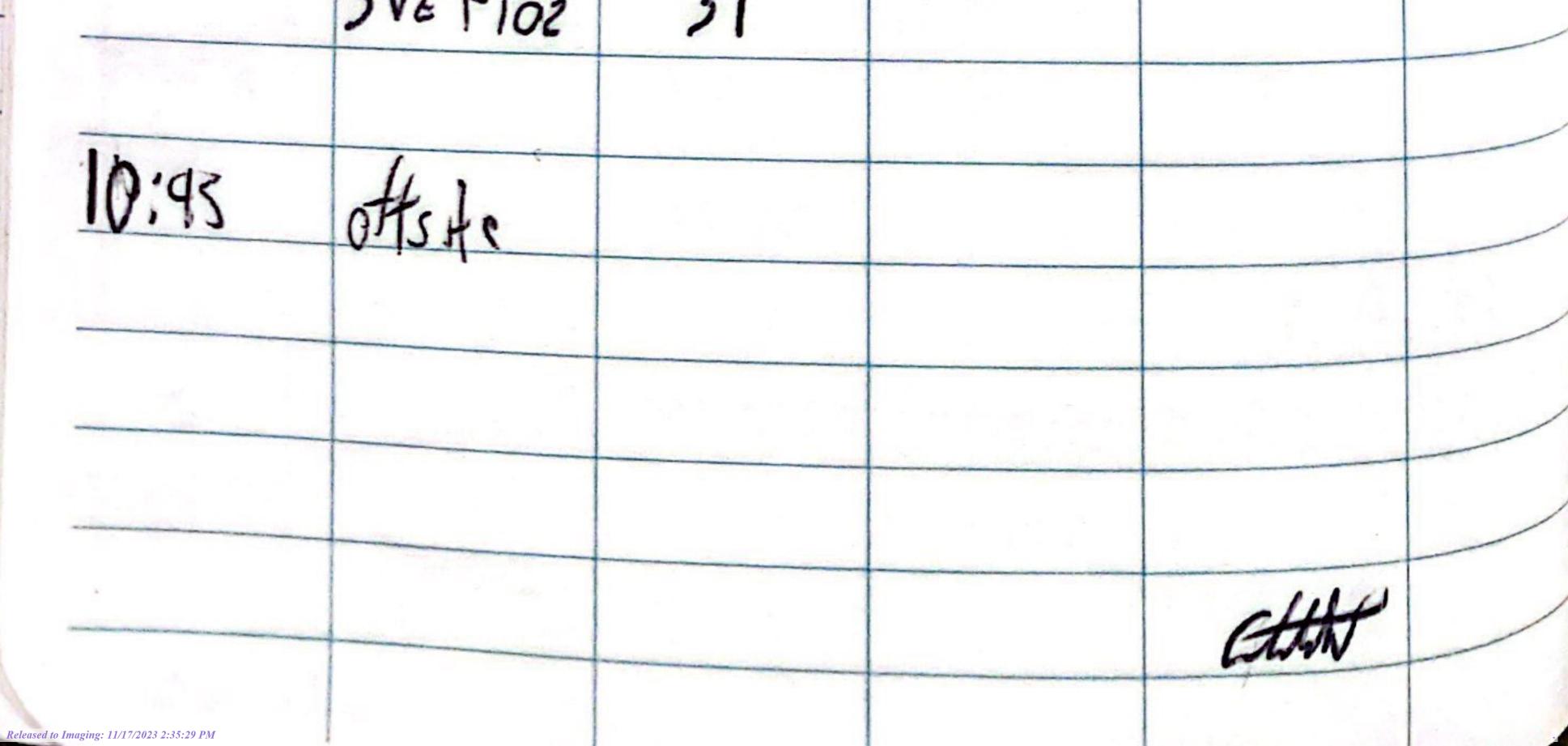
APPENDIX A

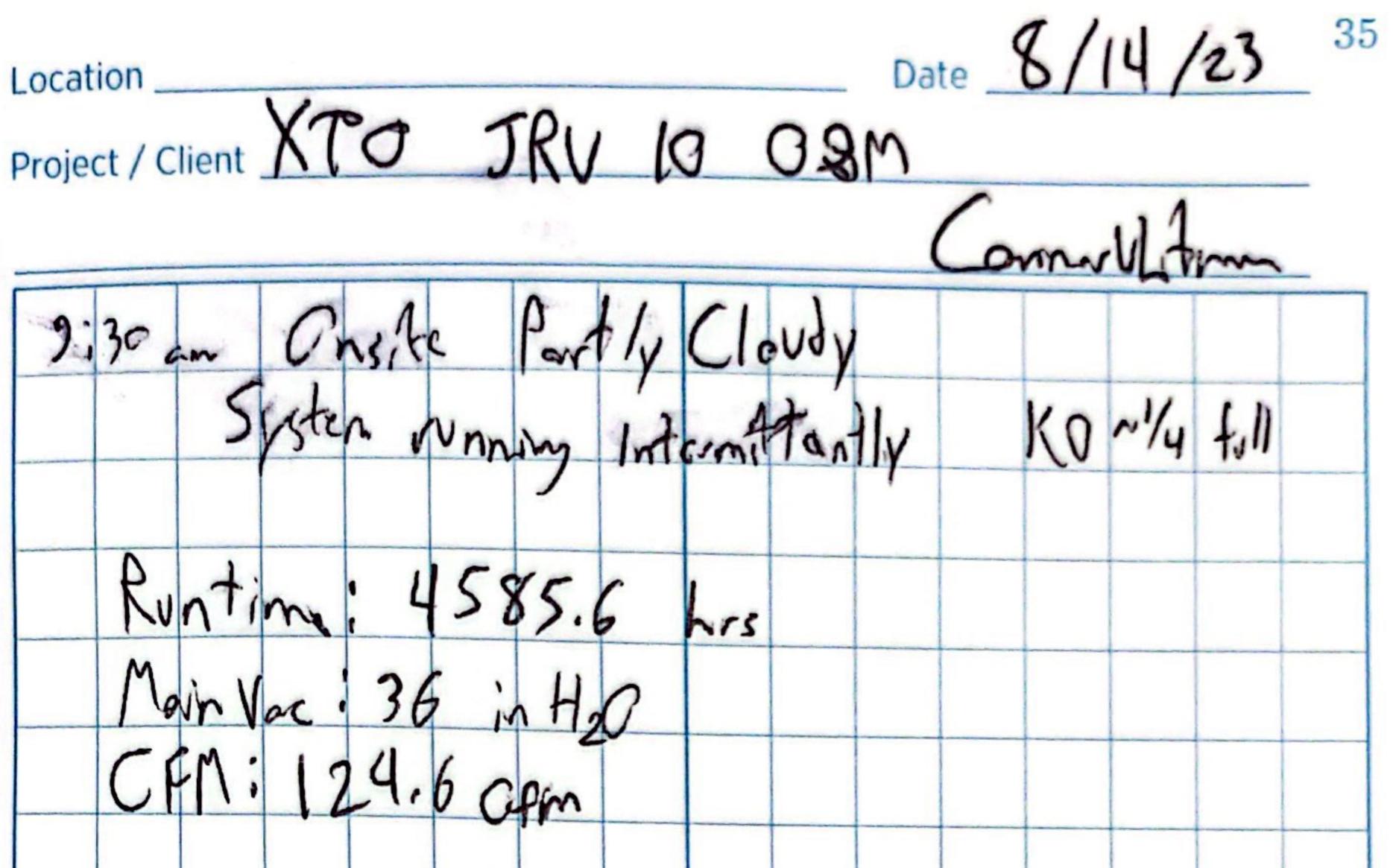
Field Notes

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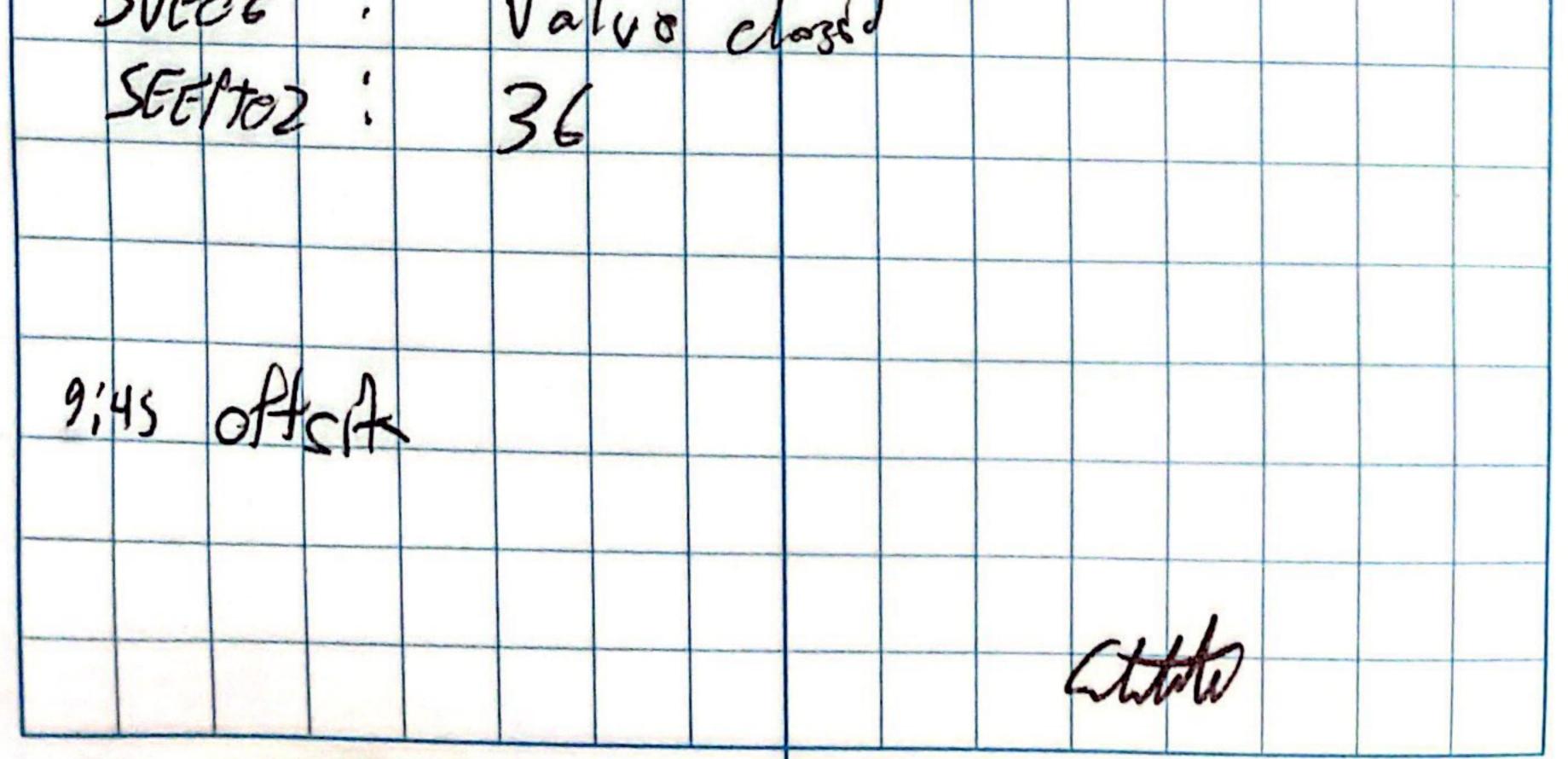
Date 7/12/23 Received by OCD: 10/30/2023 3:24:13 PM 34 Location Project / Client XTO JRU (0) CBM voit Cormar Ulif man anste Clar and Sump System unny, KO tarh "/4 full 1000 am Runtinu: 4170.9 (hrs.) Mon Vac: 34 (in H2O) Flow: 120 (ctim) 9 1

		(in H20)			
	SVEO2	26			
	SVEPTON	30			
	SVEPTOI	30			
	SVE03	N/A 1	timed off		
1	SVEOS	30			
	SVE Pto3	30			
	SVEOL	30			
	SVE04	30			
	SVE06	N/A	timor	A	
	SVEPTOR		w		

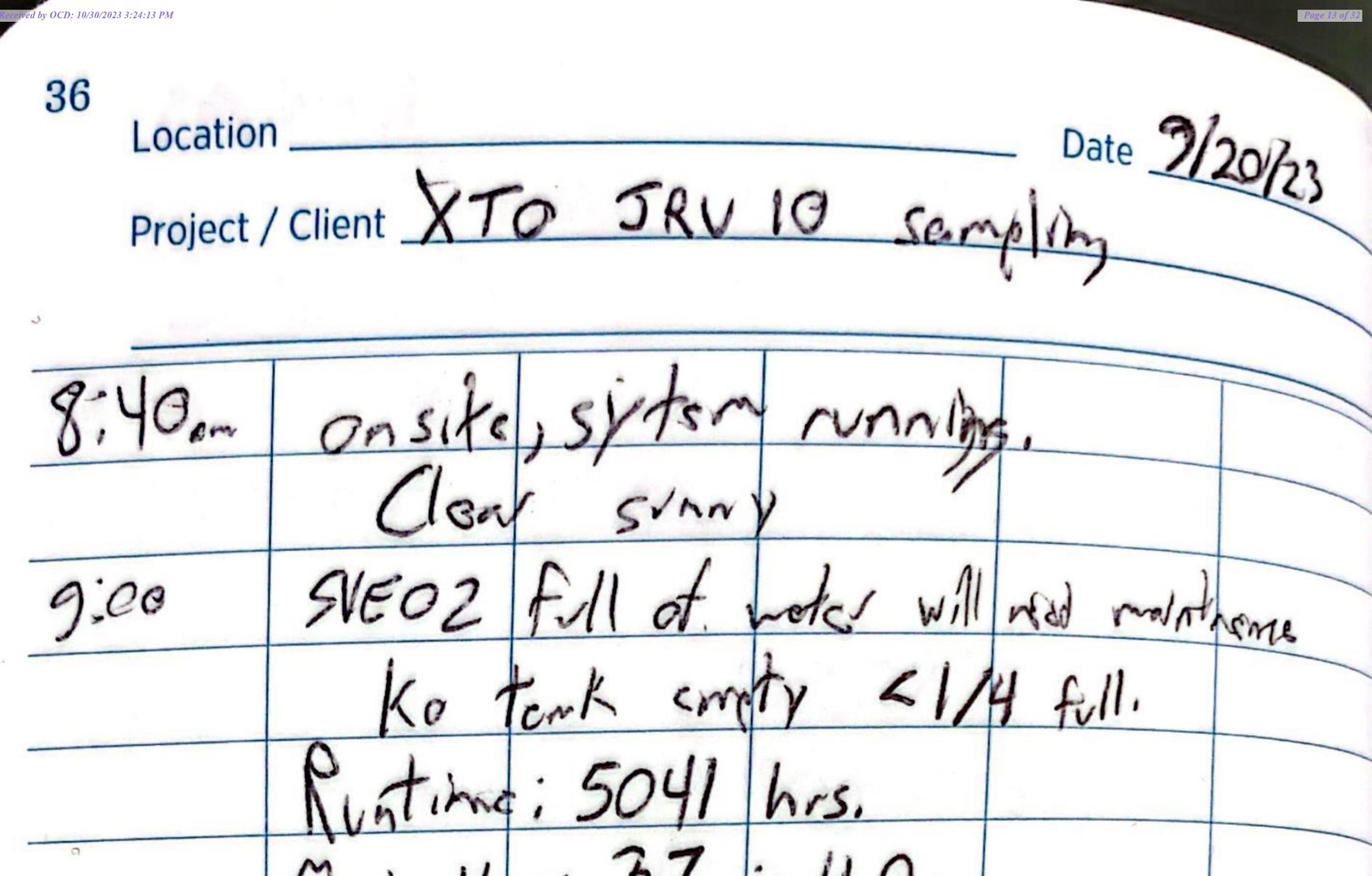




SVEO2:	(m/H_2O)		
SUCORI	32		
SVEPTO1: SVEPTO1:	34		
SVE03 :	volus cl	osca	
SVE as !	33		
SVEPTO3 !	33		
SVEOI :	32		
SVEO4:	34		



Rite in the Rain .



in H20 Moin Vac: 31 132 cfm Flov : PID Effliont: 850 ppm Influent: 611 April Sample collocted via Influent All wells 9:15 (PIDppm) (in H2O) Evalue fill of veter SVEOZ N/A 29 When UNder SVENTO4 563 31 Vacuum 30 SWEPTO1 2747 SVE03 Off Volve 670 30 SVEOS SVE MO3 598 30 30 SVEOL 241 30 SUE04 113 SVEG6 Value SVE MOZ 32 100 10:13 offsite Released to Imaging: 11/17/2023 2:35:29 PM



APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Stuart Hyde Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 9/26/2023 1:26:15 PM Revision 1

JOB DESCRIPTION

James Ranch Unit #10,03E1558041 SDG NUMBER Rural Eddy, NM

JOB NUMBER

890-5299-1

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

AMER

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Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

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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Eurofins Carlsbad 9/26/2023 (Rev. 1)

Definitions/Glossary

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041

Job ID: 890-5299)-1
SDG: Rural Eddy, N	IM

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.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	7
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	10
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	11
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	12
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/Site: James Ranch Unit #10,03E1558041 Job ID: 890-5299-1 SDG: Rural Eddy, NM

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Job ID: 890-5299-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5299-1

REVISION

The report being provided is a revision of the original report sent on 9/21/2023. The report (revision 1) is being revised due to Per client email, correcting reporting units.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 9/20/2023 10:42 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC/MS VOA

Method 8260C_GRO: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent All Wells (890-5299-1). Elevated reporting limits (RLs) are provided.

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

Analyte

Surrogate

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

m,p-Xylenes

Xylenes, Total

Gasoline Range Organics

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

Client Sample Results

RL

RL

10000

10000

10000

20000

10000

20000

Limits

70 - 135

70 - 135

250000

Limits

60 - 140

60 - 140

Unit

ug/m3

Unit

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

D

D

Prepared

Prepared

Prepared

Prepared

Page 20 of 32

Job ID: 890-5299-1 SDG: Rural Eddy, NM

Client Sample ID: Influent All Wells Date Collected: 09/20/23 09:15 Date Received: 09/20/23 10:42

Lab Sample ID: 890-5299-1

Analyzed

09/21/23 17:03

Analyzed

09/21/23 13:38

09/21/23 17:03

Analyzed

09/21/23 13:38

09/21/23 13:38

09/21/23 13:38

09/21/23 13:38

09/21/23 13:38

09/21/23 13:38

Analyzed

09/21/23 13:38

09/21/23 17:03

Matrix: Air

Dil Fac

Dil Fac

Dil Fac

1

5

5

1

5

5

5	
Dil Fac	
1	
1	
1	
1	
1	
1	

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041

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

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

5210000

Result Qualifier

Result Qualifier

Qualifier

%Recovery Qualifier

109

111

<10000 U

<10000 U

43400

87000

18500

106000

103

95

%Recovery

Sample Container: Tedlar Bag 1L

Surrogate Summary

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041 Job ID: 890-5299-1 SDG: Rural Eddy, NM

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

Matrix: Air	-	• •	Prep Type: Total/NA	
-			Percent Surrogate Recovery (Acceptance Limits)	
		BFB		
Lab Sample ID	Client Sample ID	(70-135)		5
890-5299-1	Influent All Wells	95		
890-5299-1	Influent All Wells	103		6
LCS 860-122775/3	Lab Control Sample	105		
LCSD 860-122775/4	Lab Control Sample Dup	106		
MB 860-122775/6	Method Blank	91		
Surrogate Legend				8
BFB = 4-Bromofluoro	benzene (Surr)			¢
lethod: 8260C 0	GRO - Volatile Organic	Compound	s (GC/MS)	
latrix: Air	-	-	Prep Type: Total/NA	
			Percent Surrogate Recovery (Acceptance Limits)	
		BFB		
		(00.4.40)		

		BFB
Lab Sample ID	Client Sample ID	(60-140)
890-5299-1	Influent All Wells	111
890-5299-1	Influent All Wells	109
LCS 860-122754/4	Lab Control Sample	104
LCSD 860-122754/5	Lab Control Sample Dup	103
MB 860-122754/7	Method Blank	112
Surrogate Legend		
Surrogate Legend		

BFB = 4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 860-122775/6

Analysis Batch: 122775

Matrix: Air

QC Sample Results

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041

Method: 8260C - Volatile Organic Comp

ounds	(GCMS)					
			(le ID: Metho Prep Type: 1	
lifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

	MB	МВ				
Analyte	Result	Qualifier	RL	Unit	D	Prepared
Benzene	<10000	U	10000	ug/m3		
Toluene	<10000	U	10000	ug/m3		
Ethylbenzene	<10000	U	10000	ug/m3		
m,p-Xylenes	<20000	U	20000	ug/m3		
o-Xylene	<10000	U	10000	ug/m3		
Xylenes, Total	<20000	U	20000	ug/m3		
	МВ	MB				
Surrogate	%Recovery	Qualifier	Limits			Prepared

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 135

Lab Sample ID: LCS 860-122775/3 Matrix: Air Analysis Batch: 122775

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50000	57170		ug/m3		114	70 - 125	
Toluene	50000	54050		ug/m3		108	70 - 125	
Ethylbenzene	50000	52290		ug/m3		105	70 - 125	
m,p-Xylenes	50000	53310		ug/m3		107	70 - 125	
o-Xylene	50000	53840		ug/m3		108	70 - 125	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 135

Lab Sample ID: LCSD 860-122775/4 Matrix: Air Analysis Batch: 122775

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Benzene 50000 54320 109 70 - 125 35 ug/m3 5 50000 Toluene 53280 ug/m3 107 70 - 125 1 35 Ethylbenzene 50000 51740 ug/m3 103 70 - 125 1 35 m,p-Xylenes 50000 53320 ug/m3 107 70 - 125 0 35 o-Xylene 50000 53320 ug/m3 107 70 - 125 35 1 LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 135

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

Lab Sample ID: MB 860-122754/7 Matrix: Air						Client Sam	ple ID: Method Prep Type: To	
Analysis Batch: 122754								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50000	U	50000	ug/m3			09/21/23 11:55	1

Eurofins Carlsbad

1

1

1

1

1

1

1

Dil Fac

09/21/23 12:16

09/21/23 12:16

09/21/23 12:16

09/21/23 12:16

09/21/23 12:16

09/21/23 12:16

Analyzed

09/21/23 12:16

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

QC Sample Results

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041

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

Lab Sample ID: MB 860-12 Matrix: Air Analysis Batch: 122754	22754/7							Clie	ent Sam	ple ID: M Prep Ty		
		MB	МВ									
Surrogate	%Reco	very	Qualifier	Limits				P	repared	Analyz	zed	Dil Fac
4-Bromofluorobenzene (Surr)		112		60 - 140	-					09/21/23	11:55	1
Lab Sample ID: LCS 860-1	22754/4						Clie	nt Sa	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Air										Prep Ty	pe: Tot	tal/NA
Analysis Batch: 122754											-	
-				Spike	LCS	LCS				%Rec		
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics				500000	555200		ug/m3		111	60 - 140		
	LCS	LCS										
Surrogate	%Recovery	Qual	lifier	Limits								
4-Bromofluorobenzene (Surr)	104			60 - 140								
Lab Sample ID: LCSD 860	-122754/5					c	lient Sa	mple	ID: Lab		Sample	e Dup
Matrix: Air								1.1		Prep Ty		
Analysis Batch: 122754												
				Spike	LCSD	LCSD				%Rec		RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				500000	519700		ug/m3		104	60 - 140	7	35
	LCSD	LCS	D									
Surrogate	%Recovery	Qual	lifier	Limits								

4-Bromofluorobenzene (Surr)

60 - 140

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Eurofins Carlsbad

9/26/2023 (Rev. 1)

Job ID: 890-5299-1 SDG: Rural Eddy, NM

QC Association Summary

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041

GC/MS VOA

Analysis Batch: 122754

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch							
890-5299-1	Influent All Wells	Total/NA	Air	8260C GRO								
890-5299-1	Influent All Wells	Total/NA	Air	8260C GRO								
MB 860-122754/7	Method Blank	Total/NA	Air	8260C GRO								
LCS 860-122754/4	Lab Control Sample	Total/NA	Air	8260C GRO								
LCSD 860-122754/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO								
Analysis Bataby 199775												
Analysis Balch. 122	Analysis Batch: 122775											

Lab Sample ID 890-5299-1	Client Sample ID Influent All Wells	Prep Type Total/NA	Matrix	Method	Prep Batch	8
890-5299-1	Influent All Wells	Total/NA	Air	8260C		C
MB 860-122775/6	Method Blank	Total/NA	Air	8260C		
LCS 860-122775/3	Lab Control Sample	Total/NA	Air	8260C		
LCSD 860-122775/4	Lab Control Sample Dup	Total/NA	Air	8260C		

Job ID: 890-5299-1 SDG: Rural Eddy, NM

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Lab Chronicle

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041

Client Sample ID: Influent All Wells Date Collected: 09/20/23 09:15 Date Received: 09/20/23 10:42

_	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	122775	09/21/23 13:38	AN	EET HOU
Total/NA	Analysis	8260C		5	5 mL	5 mL	122775	09/21/23 17:03	AN	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	122754	09/21/23 13:38	AN	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	122754	09/21/23 17:03	AN	EET HOU

Laboratory References:

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

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Job ID: 890-5299-1 SDG: Rural Eddy, NM

Lab Sample ID: 890-5299-1

Matrix: Air

Accreditation/Certification Summary

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041 Job ID: 890-5299-1 SDG: Rural Eddy, NM

Laboratory: Eurofins Houston

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

Authority	F	Program	Identification Number	Expiration Date
Texas	1	NELAP	T104704215-23-53	06-30-24
The following analytes the agency does not c		port, but the laboratory is r	This list may include analytes for which	
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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Method Summary

Client: Ensolum Project/Site: James Ranch Unit #10,03E1558041 Job ID: 890-5299-1 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 #10,03E1558041 Job ID: 890-5299-1 SDG: Rural Eddy, NM

.ab Sample ID	Client Sample ID	Matrix	Collected	Received	
390-5299-1	Influent All Wells	Air	09/20/23 09:15	09/20/23 10:42	
					5
					8
					9
					1:
					1

(4) Relinquished By:	(3) Relinquished By:	(2) Relinquished B		(1) Relinquished By:	:24:13 PM			Influen	Lab # Field II	Sampler(s): (Cost Center: 1135831001	Site Location: Rural Eddy, NM	Project Name &	Email: shyde@ensolum.com	Project Contact: Stuart Hyde	Company Name: Ensolum		Sett			Page 2
By:	By:	Ŕ	2	By:				Influent All Wells	Field ID/Point of Collection	Charle Whit		Rural Eddy, NM	Project Name & No.: James Ranch Unit #10, 03E1558041	ensolum.com	: Stuart Hyde	Ensolum		Setting the Standard Since 1990		LABOR	
Date/Time	Date/Time	Date/Time		Date/Time				9/20/23		time	AFE: EW.2019.03388.EXP.01		h Unit #10, 03E15				Client/Project Information	ard since is		DRATORIE	
		10:429						21:15	Start Time		(p.01		58041	Ph.No.: 337-257-8307			formation	90	2	in L	
(4) Received By:	(3) Received By:	(2) Received By:		(1) Received By:					Stop Date					257-8307					Dallas, Texa	Stafford,	AIRS
								9:15am	Stop Time										Dallas, Texas (214-902-0300)	Stafford,Texas (281-240-4200)	JR SAMPLING CH
								VS	1	= Inde	oor A =	SV = Amt	= Soi pient	l Va	por	TYPE	AIR		9	0-4200)	Ľ
	Special Regi Bill to: Garre	☐ 7 Day ☐ 5 Day	Contract TA				890-5299 Chain		c	anis	ter	D					Sampling Eq		Lubbock, TX	Sa	NG C
	t Green,		t TAT	R					F	ow	Reg	ulat	tor l	D			Equip		k, TX (80	n Antoni	
	en, XTO Ene	1 Day	□ 3 Day	Requested		-	of Custody			anis Hg)			ssu	re ii	n fie	ld	ment Ir		(806-794-1296)	o, Texas	R
	Special Requests/Instructions: Collected 2-1 Liter Tedlar bags. Bill to: Garret Green, XTO Energy, Inc., Address: 3104 E. Green St. Carlsbad, NM	ау мееству: ау		ed TAT		-			(" In	anis Hg) Icom ress	Sto	p Ca	nist	er	n fie	ld	uipment Information			10-50	AIN OF CUSTODY
	Liter Te	, ×	Same Day					×	Т	VPH	(80	15)					A		d, TX (4:		SD
	dlar bag 4 E. Gre		N V					×	в	TEX	(80)	21)					Analysis		Midland, TX (432-704-5251)	Phoenix	TO
	js. en St. Carls	LSO	FedEx	Ship												-	Requested	Page	(251)	Phoenix, Arizona (480-355-0900)	DY
	bad, NM	ITACKI	Other:	ping I													ed		El Pa	80-355-0	Xenco Job #:
		Tracking NO.:	er:	Shipping Information				2 telder briss	Kemarks									of	El Paso, TX (915-585-3443)	900)	Job #

Released to Imaging: 11/17/2023 2:35:29 PM

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Xenco Job #:

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Job Number: 890-5299-1 SDG Number: Rural Eddy, NM List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 5299 List Number: 1 Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5299 List Number: 2 Creator: Baker, Jeremiah

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Job Number: 890-5299-1 SDG Number: Rural Eddy, NM

List Source: Eurofins Houston List Creation: 09/21/23 12:50 PM

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 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

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

CONDITIONS

Action 281139

CONDITIONS

	CONDIN	
ſ	Operator:	OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	281139
		Action Type:
		[UE-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS	;

Created By Condition Condition Date Review of the 3Q 2023-Solar SVE system Update: Content Satisfactory 1. Continue to operate solar SVE system and conduct all necessary O&M michael.buchanan 11/17/2023 activities. 2. Please submit system updates as required in 2024.