



P.O. Box 1653  
Durango, Colorado 81302  
(970) 764-7356  
[www.cottonwoodconsulting.com](http://www.cottonwoodconsulting.com)

September 5, 2025

Jerrid Brann  
Simcoe LLC  
1199 Main Ave Suite 101  
Durango, CO 81301

**RE: Sandoval Gas Com A #001A  
2025 Biannual Monitoring Report**

Dear Mr. Brann,

Cottonwood Consulting LLC (Cottonwood) is pleased to provide Simcoe LLC (Simcoe) with the results of the soil vapor extraction (SVE) monitoring conducted at the Sandoval Gas Com A #001A well site (API 30-045-22294). Groundwater monitoring is also conducted at the Sandoval Gas Com A #001A and groundwater monitoring results will be provided in the annual monitoring report. Details regarding the methodology and associated results are summarized below.

**Background**

Below is a timeline outlining events at the Sandoval Gas Com A #001A.

- 10/28/2003 Unlined/earthen pit closure initiated. Vertical extent not established with backhoe.
- 09/20/2006 Boring BH-1 advanced with drill rig to determine vertical extent. Hollow stem auger refusal at 17 feet below ground surface (bgs). Soil sample collected from 15 to 17 feet bgs.
- 08/22/2011 Installed monitor/test well within source area (MW #2) using air powered hammer drilling method.
- 12/02/2011 Installed up gradient monitor/test well (MW #1) using air powered hammer drilling method.
- 12/05/2011 Installed suspected side gradient monitor/test well (MW #3) using air powered hammer drilling method.
- 12/05/2011 Installed suspected down gradient monitor/test well (MW #4) using air powered hammer drilling method.
- 01/30/2018 Form C-141 initial report submitted to the New Mexico Oil Conservation Division (NMOCD). Included were the earthen pit closure documentation with lab analyses, bore hole logs, 1998 NMOCD correspondence letter, and transmission operator site map.
- 02/06/2018 NMOCD approved Form C-141 and stated additional remediation is required. Assigned administrative & order # 3RP-1057 and incident # nCS1803742861.

Cottonwood Consulting LLC

- 03/05/2018 Remediation plan submitted to the NMOCD.
- 04/13/2018 NMOCD approved remediation plan with stated conditions.
- 10/29/2018 Initial start-up of SVE system on MW #2.

Quarterly sampling of MW #1 and MW #2 was conducted from August 2011 to June 2013. Light non-aqueous phase liquid (LNAPL) was observed within MW #2 in March 2013. After the SVE start up in October 2018, LNAPL in MW #2 appears to have been removed. See Figure 1 for the locations of all monitoring wells.

## **Methodology**

The soil vapor extraction system (SVE) was installed and commenced operation in October 2018. Weekly to monthly monitoring has been ongoing since then. During the regular monitoring, observations are made about the SVE system operation and general condition, organic vapor meter (OVM) readings are collected from the exhaust of the SVE unit, vacuum pressure on the unit is noted, and the quantity of water within the drum located on the unit is noted and the drum drained, if required. Annual gas samples are also collected from the SVE unit and analyzed by HEAL for volatile organic compounds (VOCs) by US EPA Method 8260B, carbon dioxide, and oxygen.

## **Monitoring Results**

OVM readings collected during 2025 ranged from 0.8 parts per million (ppm) to 46.4 ppm. SVE monitoring results included in Attachment 1.

No BTEX or other VOCs were detected in the gas sample collected from the SVE system. The HEAL gas sample laboratory report from the 2025 gas sampling event is included as Attachment 2.

Run time was not available during the January SVE monitoring event and Cottonwood was unable to restart the system, so Cottonwood assumes the system was not operation before the February 19 monitoring event. Run time between February 19 and August 11, 2025 was 4,115.1 hours, indicating a run time of approximately 77 percent of the year to date.

## **Conclusion**

The SVE system appears to have effectively removed the LNAPL previously observed in MW #2. Simcoe will continue to conduct regular monitoring at the Sandoval Gas Com A #001A SVE system. In the future, Simcoe may advance subsurface soil borings to verify closure standards are met. Simcoe will continue to conduct SVE monitoring and sampling as required.

Brann, J.  
Page 3 of 3

Should you have any questions, please do not hesitate to contact me at 970-764-7356. Cottonwood appreciates the opportunity to provide services to Simcoe.

Sincerely,

A handwritten signature in black ink that reads "Kyle G. Siesser". The signature is written in a cursive style with a large initial 'K'.

Kyle Siesser, P.G.  
Cottonwood Consulting LLC

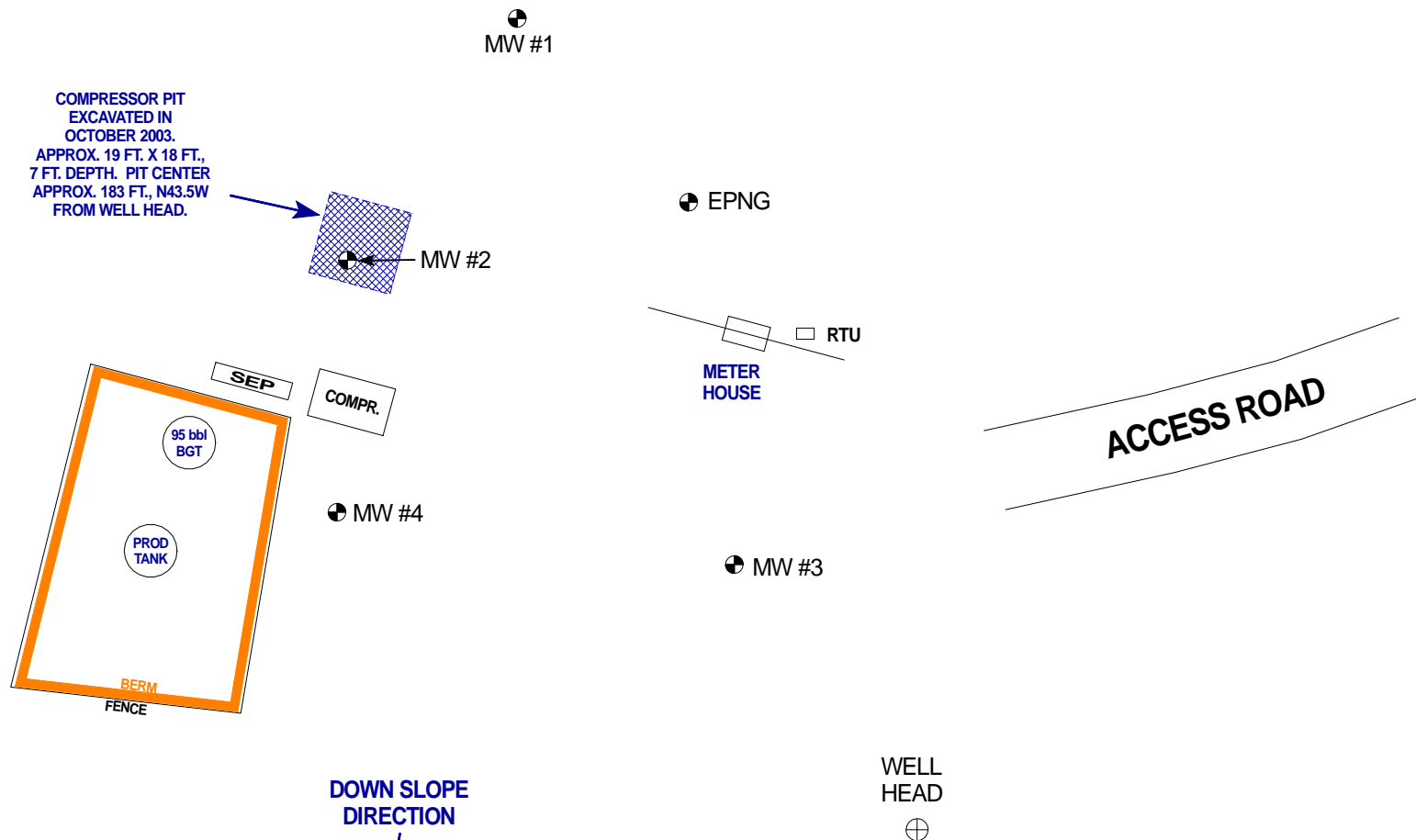
Attachments: Figure 1 – Site Map  
Figure 2 – OVM Reading Results  
Attachment 1 – SVE System Monitoring Data  
Attachment 2 – HEAL Gas Sampling Laboratory Report

Cottonwood Consulting LLC

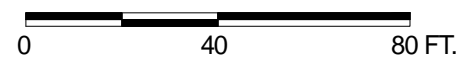


**FIGURE 1**

# FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.



**BP AMERICA PRODUCTION CO.**  
**SANDOVAL GC A # 1A**  
**NE/4 NW/4 SEC. 35, T30N, R9W**  
**SAN JUAN COUNTY, NEW MEXICO**

**B LAGG ENGINEERING, I N C.**  
 CONSULTING PETROLEUM / RECLAMATION SERVICES  
 P.O. BOX 87  
 BLOOMFIELD, NEW MEXICO 87413  
 PHONE: (505) 632-1199

PROJECT: MW SAMPLING  
 DRAWN BY: NJV  
 FILENAME: SANDOVAL GC A 1A-SM7.SKF  
 REVISED: 12-31-12

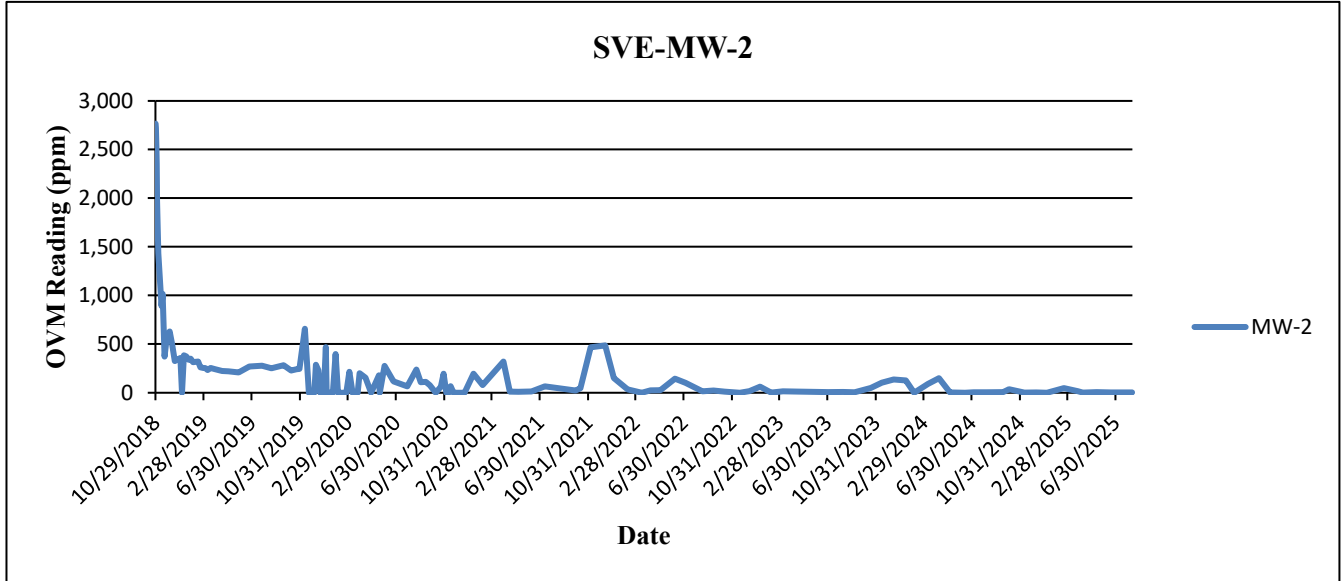
**SITE MAP**  
 12/12



**FIGURE 2**



**Sandoval GC A 1A  
OVM Reading Results  
Simcoe LLC**





**ATTACHMENT 1**

Sandoval Gas Com A #001A  
SVE Monitoring Results  
Simcoe LLC

Date	SVE Point	Exhaust OVM (ppm)	Vacuum Pressure Upstream of Drum (inHg)2	Vacuum Pressure Downstream (inHg)	Run Time (Hours)	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
10/22/2018	MW-2	-	-	-	-	NO	NO	-	Hose transferred from Irvin Com 1E
10/26/2018	MW-2	-	-	-	-	NO	NO	-	PVC installation completed from unit to MW #2.
10/29/2018	MW-2	2,766	2.35	-	-	-	NO	-	Initial start up   bailed 3 gal. of prod. from MW #2
10/30/2018	MW-2	2,720	2.50	-	-	YES	NO	-	Dry drum
10/31/2018	MW-2	2,525	2.50	-	-	YES	NO	-	Dry drum
11/1/2018	MW-2	2,355	2.50	-	-	YES	NO	-	Dry drum, effluent air sample collected
11/2/2018	MW-2	1,978	2.43	-	-	YES	YES	2.00	Drained drum, restarted
11/5/2018	MW-2	1,433	2.35	-	-	YES	YES	4.00	Installed 1 inch PVC drain piping to LLPT, drained drum, restarted
11/13/2018	MW-2	890	2.50	-	-	YES	YES	23.00	Drained drum, restarted
11/16/2018	MW-2	1,016	2.35	-	-	YES	YES	7.00	Drained drum, restarted
11/21/2018	MW-2	370	2.50	-	-	YES	YES	12.00	Drained drum, restarted
11/26/2018	MW-2	555	2.50	-	-	YES	YES	13.00	Drained drum, restarted
12/4/2018	MW-2	629	2.50	-	-	YES	YES	25.50	Drained drum, restarted
12/10/2018	MW-2	501	2.50	-	-	YES	YES	18.50	Drained drum, restarted
12/17/2018	MW-2	325	2.50	-	-	YES	YES	22.00	Drained drum, restarted
12/24/2018	MW-2	342	2.43	-	-	YES	YES	20.50	Drained drum, restarted
12/31/2018	MW-2	355	2.50	-	-	YES	YES	23.50	Drained drum, restarted
1/4/2019	MW-2	-	-	-	-	YES	YES	17.00	Drained drum only, restarted
1/9/2019	MW-2	383	2.50	-	-	YES	YES	18.50	Drained drum, restarted
1/15/2019	MW-2	372	2.50	-	-	YES	YES	19.50	
1/21/2019	MW-2	338	2.50	-	-	YES	YES	18.00	
1/26/2019	MW-2	350	2.50	-	-	YES	YES	17.00	
2/1/2019	MW-2	313	2.50	-	-	YES	YES	19.50	
2/7/2019	MW-2	316	2.43	-	-	YES	YES	15.50	
2/14/2019	MW-2	319	2.50	-	-	YES	YES	23.50	
2/20/2019	MW-2	260	2.43	-	-	YES	YES	22.00	
2/27/2019	MW-2	253	2.43	-	-	YES	YES	23.50	
3/5/2019	MW-2	252	2.35	-	-	YES	YES	12.00	
3/10/2019	MW-2	233	2.35	-	-	YES	YES	7.00	
3/18/2019	MW-2	254	2.35	-	-	YES	YES	18.00	
3/28/2019	MW-2	243	2.43	-	-	YES	YES	11.50	
4/16/2019	MW-2	222	2.35	-	-	YES	YES	20.50	
5/2/2019	MW-2	219	2.35	-	-	YES	YES	4.50	
5/28/2019	MW-2	207	2.35	-	-	YES	YES	10.50	
6/24/2019	MW-2	268	2.35	-	-	YES	NO	-	Water below drain plug, air sample collected
7/26/2019	MW-2	277	2.35	-	-	YES	NO	-	Dry drum
8/19/2019	MW-2	251	2.35	-	-	YES	NO	-	Dry drum
9/19/2019	MW-2	281	2.35	-	-	YES	NO	-	Dry drum
10/8/2019	MW-2	227	1.84	-	-	YES	NO	-	Water in drum 0.50" above drain plug
10/22/2019	MW-2	241	2.57	-	-	YES	YES	14.00	
10/29/2019	MW-2	244	2.43	-	-	YES	YES	12.00	
11/12/2019	MW-2	656	2.43	-	-	NO	YES	25.50	Drained, restarted, collect data
11/22/2019	MW-2	NA	2.43	-	-	YES	YES	18.50	
12/6/2019	MW-2	NA	2.43	-	-	NO	YES	22.00	Drained, restarted
12/10/2019	MW-2	287	2.43	-	-	YES	YES	9.00	Drained, restarted after water sample collected
12/16/2019	MW-2	230	2.50	-	-	YES	YES	17.00	Drained, restarted
12/21/2019	MW-2	NA	2.50	-	-	NO	NO	-	Restarted, then collected exhaust data
12/24/2019	MW-2	NA	2.50	-	-	YES	YES	14.00	Drained, restarted
12/30/2019	MW-2	NA	2.50	-	-	NO	YES	12.00	Restarted, then collected exhaust data
1/4/2020	MW-2	468	2.43	-	-	NO	NO	-	Restarted, then collected data
1/6/2020	MW-2	NA	-	-	-	NO	NO	-	
1/9/2020	MW-2	NA	1.18	-	-	NO	YES	10.50	Drained, restarted, then collected data
1/10/2020	MW-2	NA	1.32	-	-	NO	YES	10.50	Drained, restarted, then collected data

Sandoval Gas Com A #001A  
SVE Monitoring Results  
Simcoe LLC

Date	SVE Point	Exhaust OVM (ppm)	Vacuum Pressure Upstream of Drum (inHg)2	Vacuum Pressure Downstream of Drum (inHg)	Run Time (Hours)	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
1/11/2020	MW-2	NA	2.50	-	-	NO	YES	5.50	Drained, restarted, then collected data
1/14/2020	MW-2	NA	2.43	-	-	YES	YES	9.00	Drained, restarted
1/22/2020	MW-2	NA	-	-	-	NO	YES	14.00	Drained, restarted, then collected data
1/29/2020	MW-2	397	2.43	-	-	NO	NO	-	Water in drum below drain port
2/4/2020	MW-2	NA	2.35	-	-	NO	YES	20.50	Drained, restarted, then collected data
2/10/2020	MW-2	NA	2.35	-	-	YES	YES	23.50	Drained, restarted
2/18/2020	MW-2	NA	2.50	-	-	YES	YES	21.00	Drained, restarted
2/19/2020	MW-2	NA	2.50	-	-	YES	NO	-	Water level in drum not measured
2/25/2020	MW-2	NA	2.35	-	-	YES	YES	15.50	
3/4/2020	MW-2	215	2.21	-	-	NO	YES	15.50	Drained, restarted, then collected data
3/12/2020	MW-2	NA	2.13	-	-	NO	NO	-	Water in drum below drain port, restarted, then collected data
3/25/2020	MW-2	NA	2.21	-	-	YES	YES	14.00	
3/30/2020	MW-2	199	2.21	-	-	YES	YES	5.50	Shut down during MW sampling, drained, restarted
4/14/2020	MW-2	153	2.21	-	-	NO	YES	11.50	Drained, restarted, then collected data
4/28/2020	MW-2	NA	2.13	-	-	YES	NO	-	Water in drum below drain port, restarted
5/18/2020	MW-2	178	2.06	-	-	NO	NO	-	Water in drum below drain port, restarted
5/20/2020	MW-2	NA	2.13	-	-	YES	NO	-	Water level in drum not measured
6/1/2020	MW-2	275	2.06	-	-	NO	NO	-	Water in drum below drain port, restarted, effluent air sample collected
6/24/2020	MW-2	116	1.91	-	-	NO	NO	-	Water in drum below drain port, restarted
7/29/2020	MW-2	64	1.91	-	-	NO	NO	-	Water level in drum not measured, restarted, then collected readings
8/21/2020	MW-2	238	1.99	-	-	NO	NO	-	Dry drum, restarted, then collected readings
9/1/2020	MW-2	107	2.06	-	-	YES	NO	-	Water level in drum not measured
9/14/2020	MW-2	111	2.13	-	-	YES	NO	-	Shut down prior to sampling, water in drum below drain port, restarted
9/24/2020	MW-2	76	2.13	-	-	YES	NO	-	Water in drum below drain port, restarted
10/9/2020	MW-2	NA	2.21	-	-	YES	NO	-	Water in drum just above drain port
10/22/2020	MW-2	61	2.13	-	-	YES	YES	9.50	
10/29/2020	MW-2	194	2.13	-	-	NO	YES	4.00	Drained, restarted, then collected data
11/5/2020	MW-2	NA	2.13	-	-	NO	YES	-	Water in drum below drain port, restarted, then collected readings
11/11/2020	MW-2	NA	2.21	-	-	YES	YES	10.50	
11/16/2020	MW-2	66	2.21	-	-	YES	YES	11.50	
11/23/2020	MW-2	NA	2.13	-	-	YES	YES	9.00	
12/4/2020	MW-2	NA	2.21	-	-	NO	YES	25.50	
12/10/2020	MW-2	NA	2.21	-	-	YES	YES	20.50	
12/15/2020	MW-2	NA	2.13	-	-	YES	YES	18.50	
12/21/2020	MW-2	NA	2.13	-	-	YES	YES	20.50	
1/13/2021	MW-2	194.3	-	-	-	-	YES	-	
2/5/2021	MW-2	78.15	-	-	-	-	YES	-	
3/30/2021	MW-2	319.5	-	-	-	-	YES	-	
4/15/2021	MW-2	10.86	-	-	-	-	YES	-	
5/7/2021	MW-2	8.15	-	-	-	-	YES	-	
6/9/2021	MW-2	12.58	-	-	-	-	YES	-	
7/13/2021	MW-2	65.27	-	-	-	-	YES	-	
9/29/2021	MW-2	22.5	1.32	-	-	YES	NO	-	Water in drum below drain port
10/11/2021	MW-2	44	1.32	-	-	YES	YES	1.00	
11/6/2021	MW-2	465.9	1.32	-	-	NO	YES	26.32	Drained, restarted, then collected data
12/13/2021	MW-2	486	1.47	-	-	NO	YES	27.14	Drained, restarted, then collected data
1/4/2022	MW-2	150.1	1.32	-	-	NO	NO	-	Drum frozen, unable to drain. System restarted without draining.
2/8/2022	MW-2	33.4	0.88	-	-	NO	NO	-	Drum frozen, unable to drain. System restarted without draining.
3/16/2022	MW-2	15.0	0.74	0.0	-	YES	YES	3.29	
4/7/2022	MW-2	23.1	0.66	0.0	-	YES	YES	1.65	Vacuum gauge downstream of drum may be broken
5/2/2022	MW-2	24.4	0.59	-	-	YES	NO	-	Water in drum below drain port
6/8/2022	MW-2	143.6	0.59	-	-	YES	NO	-	
7/5/2022	MW-2	101.2	0.66	-	-	YES	NO	-	

Sandoval Gas Com A #001A  
SVE Monitoring Results  
Simcoe LLC

Date	SVE Point	Exhaust OVM (ppm)	Vacuum Pressure Upstream of Drum (inHg)2	Vacuum Pressure Downstream of Drum (inHg)	Run Time (Hours)	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
8/17/2022	MW-2	13.8	0.59	-	-	YES	NO	-	
9/14/2022	MW-2	21.8	0.59	-	-	YES	NO	-	
10/12/2022	MW-2	10.3	0.66	-	-	YES	NO	-	
11/20/2022	MW-2	94.0	0.66	-	-	NO	YES	30.03	
12/14/2022	MW-2	15.7	0.74	0.0	-	YES	YES	22.22	
1/10/2023	MW-2	62.2	0.59	-	-	NO	YES	29.62	
2/7/2023	MW-2	0.4	-	-	-	NO	YES	29.21	
3/9/2023	MW-2	13.3	-	-	1041.9	YES	YES	1.65	Run time 1041.9 hrs. Grabbed gas sample @1045
4/6/2023	MW-2	10.5	-	-	1681.2	NO	YES	29.21	
5/3/2023	MW-2	9.6	-	-	2329.0	YES	YES	9.05	2329.0 hrs
6/6/2023	MW-2	7.3	-	-	3144.4	YES	NO	-	3144.4 hrs
7/7/2023	MW-2	5.7	-	-	3889.3	YES	NO	-	3889.3 hrs
8/9/2023	MW-2	7.6	-	-	4679.6	YES	NO	-	
9/7/2023	MW-2	3.7	-	-	5375.3	YES	NO	-	
10/18/2023	MW-2	48.6	-	0.0	6358.6	YES	YES	4.11	
11/15/2023	MW-2	103.1	1.47	-	6540	NO	YES	15.63	Replaced gauge with -30(inhg)/-100(kpa) gauge
12/15/2023	MW-2	135.8	0.22	0.0	7238.8	YES	YES	21.39	
1/15/2024	MW-2	124.8	0.74	-	7397.7	NO	NO	-	Drain valve is broken (needs replaced). Restarted system, drum frozen.
2/5/2024	MW-2	41.0	2.50	2.5	7507.5	YES	YES	0.41	Valve fixed and gauge replaced
3/11/2024	MW-2	89.1	2.50	2.5	7653.0	NO	YES	6.17	
4/8/2024	MW-2	148.3	2.50	2.5	7692.9	NO	YES	2.47	
5/6/2024	MW-2	2.8	2.50	2.5	7745.2	NO	NO	-	Water in drum below drain port. Restarted system. MW connection was disconnected on arrival
6/13/2024	MW-2	10.0	5.0	2	7922.4	NO	NO	-	
7/5/2024	MW-2	3.3	2.50	2.5	8209.3	YES	NO	-	Drum dry
8/7/2024	MW-2	3.1	2.50	2.5	8922.6	NO	NO	-	Drum dry
9/18/2024	MW-2	5.3	1.00	2	5543.1	NO	NO	-	SVE restarted before departure
10/3/2024	MW-2	35.8	2.25	2.25	9602.8	NO	NO	-	
11/11/2024	MW-2	1.3	2.25	2.25	9669.9	NO	NO	-	
12/11/2024	MW-2	1.4	2.25	2.25	38.1	NO	NO	-	
1/7/2025	MW-2	-	0.0	0.0	-	NO	YES	12.75	Generator was not running on arrival. Tried to start SVE, SVE would not restart.
2/19/2025	MW-2	46.4	1.75	1.75	1061.6	YES	YES	3.29	
3/26/2025	MW-2	15.1	2.25	2.25	1901.4	YES	YES	6.99	
4/8/2025	MW-2	0.8	2.50	2.5	2130.0	YES	YES	16.04	
5/13/2025	MW-2	6.2	3.0	2.5	3057.4	YES	YES	1.65	
6/18/2025	MW-2	2.7	2.50	2.5	3906.6	YES	NO	-	
7/21/2025	MW-2	2.1	2.50	2.5	4670.9	YES	NO	-	
8/11/2025	MW-2	2.6	2.50	2.5	5176.7	YES	NO	-	

Notes:  
SVE - soil vapor extraction  
OVM - organic vapor meter  
ppm - parts per million  
in - inches  
cfm - cubic feet per minute  
gal - gallons  
NA - Not Applicable



**ATTACHMENT 2**



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kyle Siesser  
 Cottonwood Consulting LLC  
 PO BOX 1653  
 Durango, Colorado 81302  
 Generated 7/8/2025 3:24:14 PM

## JOB DESCRIPTION

Sandoval GCA #001A

## JOB NUMBER

885-27100-1

Eurofins Albuquerque  
 4901 Hawkins NE  
 Albuquerque NM 87109



# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization

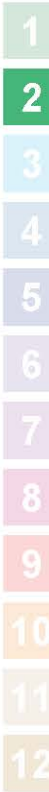


Generated  
7/8/2025 3:24:14 PM

Authorized for release by  
Cheyenne Cason, Project Manager  
[cheyenne.cason@et.eurofinsus.com](mailto:cheyenne.cason@et.eurofinsus.com)  
(505)338-8812

Client: Cottonwood Consulting LLC  
Project/Site: Sandoval GCA #001A

Laboratory Job ID: 885-27100-1



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	8
QC Association Summary . . . . .	10
Lab Chronicle . . . . .	11
Certification Summary . . . . .	12
Subcontract Data . . . . .	15
Chain of Custody . . . . .	22
Receipt Checklists . . . . .	23

## Definitions/Glossary

Client: Cottonwood Consulting LLC  
 Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

**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: Cottonwood Consulting LLC  
Project: Sandoval GCA #001A

Job ID: 885-27100-1

**Job ID: 885-27100-1**

**Eurofins Albuquerque**

## Job Narrative 885-27100-1

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 6/19/2025 6:45 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

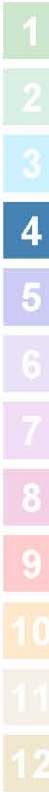
### Subcontract Work

Method Natural Gases O2, CO2: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

### GC/MS VOA

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

Eurofins Albuquerque



## Client Sample Results

Client: Cottonwood Consulting LLC  
Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

Client Sample ID: SVE

Lab Sample ID: 885-27100-1

Date Collected: 06/18/25 12:10

Matrix: Air

Date Received: 06/19/25 06:45

Sample Container: Tedlar Bag 1L

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			06/25/25 15:17	1
1,1,1-Trichloroethane	ND		0.10	ug/L			06/25/25 15:17	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			06/25/25 15:17	1
1,1,2-Trichloroethane	ND		0.10	ug/L			06/25/25 15:17	1
1,1-Dichloroethane	ND		0.10	ug/L			06/25/25 15:17	1
1,1-Dichloroethene	ND		0.10	ug/L			06/25/25 15:17	1
1,1-Dichloropropene	ND		0.10	ug/L			06/25/25 15:17	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			06/25/25 15:17	1
1,2,3-Trichloropropane	ND		0.20	ug/L			06/25/25 15:17	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			06/25/25 15:17	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			06/25/25 15:17	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			06/25/25 15:17	1
1,2-Dichlorobenzene	ND		0.10	ug/L			06/25/25 15:17	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			06/25/25 15:17	1
1,2-Dichloropropane	ND		0.10	ug/L			06/25/25 15:17	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
1,3-Dichlorobenzene	ND		0.10	ug/L			06/25/25 15:17	1
1,3-Dichloropropane	ND		0.10	ug/L			06/25/25 15:17	1
1,4-Dichlorobenzene	ND		0.10	ug/L			06/25/25 15:17	1
1-Methylnaphthalene	ND		0.40	ug/L			06/25/25 15:17	1
2,2-Dichloropropane	ND		0.20	ug/L			06/25/25 15:17	1
2-Butanone	ND		1.0	ug/L			06/25/25 15:17	1
2-Chlorotoluene	ND		0.10	ug/L			06/25/25 15:17	1
2-Hexanone	ND		1.0	ug/L			06/25/25 15:17	1
2-Methylnaphthalene	ND		0.40	ug/L			06/25/25 15:17	1
4-Chlorotoluene	ND		0.10	ug/L			06/25/25 15:17	1
4-Isopropyltoluene	ND		0.10	ug/L			06/25/25 15:17	1
4-Methyl-2-pentanone	ND		1.0	ug/L			06/25/25 15:17	1
Acetone	ND		1.0	ug/L			06/25/25 15:17	1
Benzene	ND		0.10	ug/L			06/25/25 15:17	1
Bromobenzene	ND		0.10	ug/L			06/25/25 15:17	1
Bromodichloromethane	ND		0.10	ug/L			06/25/25 15:17	1
Dibromochloromethane	ND		0.10	ug/L			06/25/25 15:17	1
Bromoform	ND		0.10	ug/L			06/25/25 15:17	1
Bromomethane	ND		0.30	ug/L			06/25/25 15:17	1
Carbon disulfide	ND		1.0	ug/L			06/25/25 15:17	1
Carbon tetrachloride	ND		0.10	ug/L			06/25/25 15:17	1
Chlorobenzene	ND		0.10	ug/L			06/25/25 15:17	1
Chloroethane	ND		0.20	ug/L			06/25/25 15:17	1
Chloroform	ND		0.10	ug/L			06/25/25 15:17	1
Chloromethane	ND		0.30	ug/L			06/25/25 15:17	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			06/25/25 15:17	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			06/25/25 15:17	1
Dibromomethane	ND		0.10	ug/L			06/25/25 15:17	1
Dichlorodifluoromethane	ND		0.10	ug/L			06/25/25 15:17	1
Ethylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
Hexachlorobutadiene	ND		0.10	ug/L			06/25/25 15:17	1

Eurofins Albuquerque

### Client Sample Results

Client: Cottonwood Consulting LLC  
 Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

**Client Sample ID: SVE**

**Lab Sample ID: 885-27100-1**

**Date Collected: 06/18/25 12:10**

**Matrix: Air**

**Date Received: 06/19/25 06:45**

**Sample Container: Tedlar Bag 1L**

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			06/25/25 15:17	1
Methylene Chloride	ND		0.30	ug/L			06/25/25 15:17	1
n-Butylbenzene	ND		0.30	ug/L			06/25/25 15:17	1
N-Propylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
Naphthalene	ND		0.20	ug/L			06/25/25 15:17	1
sec-Butylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
Styrene	ND		0.10	ug/L			06/25/25 15:17	1
tert-Butylbenzene	ND		0.10	ug/L			06/25/25 15:17	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			06/25/25 15:17	1
Toluene	ND		0.10	ug/L			06/25/25 15:17	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			06/25/25 15:17	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			06/25/25 15:17	1
Trichloroethene (TCE)	ND		0.10	ug/L			06/25/25 15:17	1
Trichlorofluoromethane	ND		0.10	ug/L			06/25/25 15:17	1
Vinyl chloride	ND		0.10	ug/L			06/25/25 15:17	1
Xylenes, Total	ND		0.15	ug/L			06/25/25 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		06/25/25 15:17	1
Toluene-d8 (Surr)	97		70 - 130		06/25/25 15:17	1
4-Bromofluorobenzene (Surr)	99		70 - 130		06/25/25 15:17	1
Dibromofluoromethane (Surr)	96		70 - 130		06/25/25 15:17	1

## QC Sample Results

Client: Cottonwood Consulting LLC  
Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

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

Lab Sample ID: MB 885-28974/5

Matrix: Air

Analysis Batch: 28974

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			06/25/25 13:27	1
1,1,1-Trichloroethane	ND		1.0	ug/L			06/25/25 13:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			06/25/25 13:27	1
1,1,2-Trichloroethane	ND		1.0	ug/L			06/25/25 13:27	1
1,1-Dichloroethane	ND		1.0	ug/L			06/25/25 13:27	1
1,1-Dichloroethene	ND		1.0	ug/L			06/25/25 13:27	1
1,1-Dichloropropene	ND		1.0	ug/L			06/25/25 13:27	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			06/25/25 13:27	1
1,2,3-Trichloropropane	ND		2.0	ug/L			06/25/25 13:27	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			06/25/25 13:27	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			06/25/25 13:27	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			06/25/25 13:27	1
1,2-Dichlorobenzene	ND		1.0	ug/L			06/25/25 13:27	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			06/25/25 13:27	1
1,2-Dichloropropane	ND		1.0	ug/L			06/25/25 13:27	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
1,3-Dichlorobenzene	ND		1.0	ug/L			06/25/25 13:27	1
1,3-Dichloropropane	ND		1.0	ug/L			06/25/25 13:27	1
1,4-Dichlorobenzene	ND		1.0	ug/L			06/25/25 13:27	1
1-Methylnaphthalene	ND		4.0	ug/L			06/25/25 13:27	1
2,2-Dichloropropane	ND		2.0	ug/L			06/25/25 13:27	1
2-Butanone	ND		10	ug/L			06/25/25 13:27	1
2-Chlorotoluene	ND		1.0	ug/L			06/25/25 13:27	1
2-Hexanone	ND		10	ug/L			06/25/25 13:27	1
2-Methylnaphthalene	ND		4.0	ug/L			06/25/25 13:27	1
4-Chlorotoluene	ND		1.0	ug/L			06/25/25 13:27	1
4-Isopropyltoluene	ND		1.0	ug/L			06/25/25 13:27	1
4-Methyl-2-pentanone	ND		10	ug/L			06/25/25 13:27	1
Acetone	ND		10	ug/L			06/25/25 13:27	1
Benzene	ND		1.0	ug/L			06/25/25 13:27	1
Bromobenzene	ND		1.0	ug/L			06/25/25 13:27	1
Bromodichloromethane	ND		1.0	ug/L			06/25/25 13:27	1
Dibromochloromethane	ND		1.0	ug/L			06/25/25 13:27	1
Bromoform	ND		1.0	ug/L			06/25/25 13:27	1
Bromomethane	ND		3.0	ug/L			06/25/25 13:27	1
Carbon disulfide	ND		10	ug/L			06/25/25 13:27	1
Carbon tetrachloride	ND		1.0	ug/L			06/25/25 13:27	1
Chlorobenzene	ND		1.0	ug/L			06/25/25 13:27	1
Chloroethane	ND		2.0	ug/L			06/25/25 13:27	1
Chloroform	ND		1.0	ug/L			06/25/25 13:27	1
Chloromethane	ND		3.0	ug/L			06/25/25 13:27	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			06/25/25 13:27	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			06/25/25 13:27	1
Dibromomethane	ND		1.0	ug/L			06/25/25 13:27	1
Dichlorodifluoromethane	ND		1.0	ug/L			06/25/25 13:27	1
Ethylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
Hexachlorobutadiene	ND		1.0	ug/L			06/25/25 13:27	1

Eurofins Albuquerque

### QC Sample Results

Client: Cottonwood Consulting LLC  
 Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-28974/5  
 Matrix: Air  
 Analysis Batch: 28974

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			06/25/25 13:27	1
Methylene Chloride	ND		3.0	ug/L			06/25/25 13:27	1
n-Butylbenzene	ND		3.0	ug/L			06/25/25 13:27	1
N-Propylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
Naphthalene	ND		2.0	ug/L			06/25/25 13:27	1
sec-Butylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
Styrene	ND		1.0	ug/L			06/25/25 13:27	1
tert-Butylbenzene	ND		1.0	ug/L			06/25/25 13:27	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			06/25/25 13:27	1
Toluene	ND		1.0	ug/L			06/25/25 13:27	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			06/25/25 13:27	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			06/25/25 13:27	1
Trichloroethene (TCE)	ND		1.0	ug/L			06/25/25 13:27	1
Trichlorofluoromethane	ND		1.0	ug/L			06/25/25 13:27	1
Vinyl chloride	ND		1.0	ug/L			06/25/25 13:27	1
Xylenes, Total	ND		1.5	ug/L			06/25/25 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		06/25/25 13:27	1
Toluene-d8 (Surr)	98		70 - 130		06/25/25 13:27	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/25/25 13:27	1
Dibromofluoromethane (Surr)	97		70 - 130		06/25/25 13:27	1

Lab Sample ID: LCS 885-28974/4  
 Matrix: Air  
 Analysis Batch: 28974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	18.5		ug/L		92	70 - 130
Benzene	20.0	24.1		ug/L		121	70 - 130
Chlorobenzene	20.0	21.1		ug/L		105	70 - 130
Toluene	20.0	20.9		ug/L		104	70 - 130
Trichloroethene (TCE)	20.0	18.5		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Eurofins Albuquerque

### QC Association Summary

Client: Cottonwood Consulting LLC  
Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

#### GC/MS VOA

#### Analysis Batch: 28974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27100-1	SVE	Total/NA	Air	8260B	
MB 885-28974/5	Method Blank	Total/NA	Air	8260B	
LCS 885-28974/4	Lab Control Sample	Total/NA	Air	8260B	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

# Lab Chronicle

Client: Cottonwood Consulting LLC  
Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

**Client Sample ID: SVE**

**Lab Sample ID: 885-27100-1**

**Date Collected: 06/18/25 12:10**

**Matrix: Air**

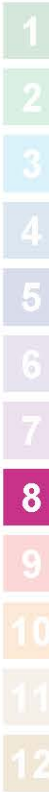
**Date Received: 06/19/25 06:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	28974	JP	EET ALB	06/25/25 15:17

**Laboratory References:**

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975



## Accreditation/Certification Summary

Client: Cottonwood Consulting LLC  
 Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

### Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

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
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropane
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane

Eurofins Albuquerque

## Accreditation/Certification Summary

Client: Cottonwood Consulting LLC  
 Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

### Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
-----------	---------	-----------------------	-----------------

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
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26
--------	-------	----------	----------

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
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane

Eurofins Albuquerque

## Accreditation/Certification Summary

Client: Cottonwood Consulting LLC  
 Project/Site: Sandoval GCA #001A

Job ID: 885-27100-1

### Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total



Trust our People. Trust our Data.  
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515  
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

# ANALYTICAL SUMMARY REPORT

July 08, 2025

Eurofins TestAmerica - Albuquerque  
4901 Hawkins St NE Ste D  
Albuquerque, NM 87109-4372

Work Order: B25070053      Quote ID: B15626

Project Name: Sandoval GCA #001A, 88501577

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 7/1/2025 for analysis.

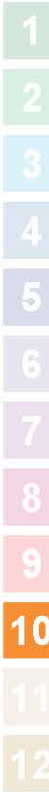
Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25070053-001	SVE (885-27100-1)	06/18/25 12:10	07/01/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.





Trust our People. Trust our Data.  
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515  
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

**LABORATORY ANALYTICAL REPORT**

Prepared by Billings, MT Branch

**Client:** Eurofins TestAmerica - Albuquerque  
**Project:** Sandoval GCA #001A, 88501577  
**Lab ID:** B25070053-001  
**Client Sample ID:** SVE (885-27100-1)

**Report Date:** 07/08/25  
**Collection Date:** 06/18/25 12:10  
**Date Received:** 07/01/25  
**Matrix:** Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>GAS CHROMATOGRAPHY ANALYSIS REPORT</b>							
Oxygen	21.68	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Nitrogen	78.28	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Carbon Dioxide	0.04	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-13	07/07/25 11:58 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	07/07/25 11:58 / jrj

**CALCULATED PROPERTIES**

Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	07/07/25 11:58 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	07/07/25 11:58 / jrj
Pseudo-critical Pressure, psia	545			1		GPA 2261-13	07/07/25 11:58 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	07/07/25 11:58 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	07/07/25 11:58 / jrj
Air, %	99.05			0.01		GPA 2261-13	07/07/25 11:58 / jrj

- The analysis was not corrected for air.

**COMMENTS**

- 07/07/25 11:58 / jrj

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
- Standard conditions: 60 F & 14.73 psi on a dry basis.

**Report Definitions:** RL - Analyte Reporting Limit  
QCL - Quality Control Limit

MCL - Maximum Contaminant Level  
ND - Not detected at the Reporting Limit (RL)



Trust our People. Trust our Data.  
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515  
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

### QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25070053

Report Date: 07/08/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: GPA 2261-13</b>								Batch: R445403		
<b>Lab ID: B25070054-001ADUP</b>	12 Sample Duplicate				Run: GC7890_250707A			07/07/25 13:43		
Oxygen		21.3	Mol %	0.01				0.7	20	
Nitrogen		78.4	Mol %	0.01				0.2	20	
Carbon Dioxide		0.30	Mol %	0.01				0.0	20	
Hydrogen Sulfide		<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plus		<0.01	Mol %	0.01					20	
<b>Lab ID: LCS070725</b>	11 Laboratory Control Sample				Run: GC7890_250707A			07/07/25 14:32		
Oxygen		0.63	Mol %	0.01	128	70	130			
Nitrogen		6.18	Mol %	0.01	105	70	130			
Carbon Dioxide		0.99	Mol %	0.01	99	70	130			
Methane		76.5	Mol %	0.01	100	70	130			
Ethane		6.00	Mol %	0.01	99	70	130			
Propane		5.00	Mol %	0.01	100	70	130			
Isobutane		1.55	Mol %	0.01	78	70	130			
n-Butane		1.95	Mol %	0.01	98	70	130			
Isopentane		0.49	Mol %	0.01	98	70	130			
n-Pentane		0.50	Mol %	0.01	100	70	130			
Hexanes plus		0.19	Mol %	0.01	92	70	130			

**Qualifiers:**

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Trust our People. Trust our Data.  
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515  
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

# Work Order Receipt Checklist

**Eurofins TestAmerica - Albuquerque**

**B25070053**

Login completed by: Danielle N. Harris

Date Received: 7/1/2025

Reviewed by: darcy

Received by: ET

Reviewed Date: 7/2/2025

Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	23.1°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

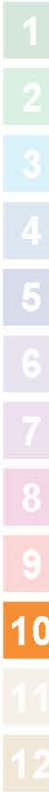
The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

## Contact and Corrective Action Comments:

The chain of custody requests a due date of 06/26/25 but received the samples on 07/01/25. Proceed with a due date of 07/08/25 per email with Cheyenne Cason on 07/01/25. DNH 07/01/25





Trust our People. Trust our Data.  
www.energylab.com

Billings, MT 406.252.6325 • Casper, WY 307.235.0515  
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

### Laboratory Certifications and Accreditations

Current certificates are available at [www.energylab.com](http://www.energylab.com) website:

	Agency	Number
<b>Billings, MT</b>    	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
Washington	C1039	
<b>Casper, WY</b>  	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
Washington	C1012	
<b>Gillette, WY</b>	US EPA Region VIII	WY00006
<b>Helena, MT</b>	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

ICOC No:  
885-5547

<b>Containers</b>	<b>Container Type</b>	<b>Preservative</b>
Count	Tedlar Bag 1L	None
1		

**Subcontract Method Instructions**

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB - GPA-226195 - Natural Gases O2, CO2	Fixed Gases - Natural Gases O2, CO2



### Login Sample Receipt Checklist

Client: Cottonwood Consulting LLC

Job Number: 885-27100-1

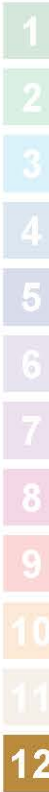
**Login Number: 27100**

**List Source: Eurofins Albuquerque**

**List Number: 1**

**Creator: Casarrubias, Tracy**

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.	False	Thermal preservation not required.
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?	False	Refer to Job Narrative for details.
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 <6mm (1/4").	True	



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 503008

**CONDITIONS**

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 503008
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	3/11/2026