

**SIMCOE LLC**  
**(formerly BPX Energy Inc.)**

**REVIEWED**

**By Mike Buchanan at 9:28 am, Jan 19, 2024**

Review of the 2021  
Sandoval Gas Com A  
001A: **Content**

**Satisfactory**

1. Continue to conduct  
groundwater  
monitoring on a

quarterly schedule as  
prescribed by NMOCD.

2. Consider options for  
further abatement and  
propose to OCD if  
necessary

3. Continue to submit  
reports annually by  
April 1, 2024.

**REMEDATION REPORT**

**SANDOVAL GAS COM A 001A**  
**(C) SECTION 35, T30N, R9W, NMPM**  
**SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:**  
**NEW MEXICO OIL CONSERVATION DIVISION**

**JANUARY 2022**

**PREPARED BY:**  
**SIMCOE LLC**  
**1100 Main Ave., Suite 101**  
**Durango, Colorado 81301**

**SIMCOE LLC**  
**Sandoval GC A # 1A**  
**Unit Letter C, Sec. 35, T30N, R09W**  
Incident #: nCS1803742861      API #: 3004522294

**Monitor Well Installation Dates:**

BH-1 (09/20/2006), MW #2 (08/22/2011), MW #1  
(12/02/2011), MW #3 (12/05/2011), MW #4 (12/06/2011).

**Monitor Well Sampling Dates:**

08/30/11, 12/09/11, 02/09/12, 06/21/12, 09/20/12,  
12/20/12, 03/28/19, 06/24/19, 09/19/19, 12/10/19,  
03/30/20, 06/01/20, 09/14/20, 12/15/20, 03/04/21,  
06/09/21, 08/20/21, 12/08/21.

**Soil Vapor Extraction System Installation:**

October 2018.

**Impact Discovery Background:**

10/28/2003      Unlined/earthen pit closure initiated. Vertical extent not established with backhoe.  
09/20/2006      Boring advanced with drill rig to determine vertical extent. Hollow stem auger refusal at 17 feet below grade (large cobbles encountered).  
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 same method noted for MW #2.  
12/05/2011      Installed suspected side gradient monitor/test well (MW #3) using same method noted for MW #2.  
12/05/2011      Installed suspected down gradient monitor/test well (MW #4) using same method noted for MW #2.  
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 [NMOCD filename [FN]: pcs1731132655\_1\_ao.pdf].  
03/05/2018      Remediation plan submitted to the NMOCD.  
04/13/2018      NMOCD approves remediation plan with stated conditions [NMOCD online well file FN: nCS1803742861\_18\_wf.pdf].

**Groundwater Monitor Well Sampling Procedures:**

Groundwater sampling was conducted on March 4, June 9, August 20, and December 8, 2021. Prior to groundwater sample collection, depth-to-water measurements were collected from MW #1, MW #2, and MW #3. MW #1 and MW #3 were both dry during the 2021 monitoring events. MW #4, located near the load-out for the below-grade tank (BGT), has been covered with sediment and possibly damaged. Staff was unable to locate the flush-mount protector at the location of MW #4 during the 2021 monitoring events. Prior to sample collection, approximately three wellbore volumes were purged from MW #2 with new disposable bailers. The groundwater sample was collected following US EPA SW-846 protocol. The groundwater sample was transferred into laboratory-provided containers with the appropriate preservative, stored in a cooler on ice, and submitted with a complete chain-of-custody to Hall Environmental Analysis Laboratory (HEAL) for analysis of volatile organic compounds (VOCs) by US EPA Method 8260B. Cottonwood also collected field measurements of pH, conductivity, and temperature. Fluids generated during monitoring well purging were discarded into the BGT located on the well site. The BGT contents are disposed of through approved NMOCD operational procedures for removal of produced fluids.

## Soil Vapor Extraction System Data:

The soil vapor extraction system (**SVE**) was installed and commenced operation in October 2018. Weekly to monthly monitoring and/or inspections have been ongoing to the present. 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 VOCs by US EPA Method 8260B.

### Monitoring Results:

#### Groundwater Monitoring Wells:

Benzene, ethylbenzene, and total xylenes were above the New Mexico Water Quality Control Commission (NMWQCC) standard in MW #2 in all four groundwater monitoring events conducted in 2021. A groundwater sampling results table is included and the HEAL groundwater sampling laboratory reports from the 2021 groundwater sampling are included.

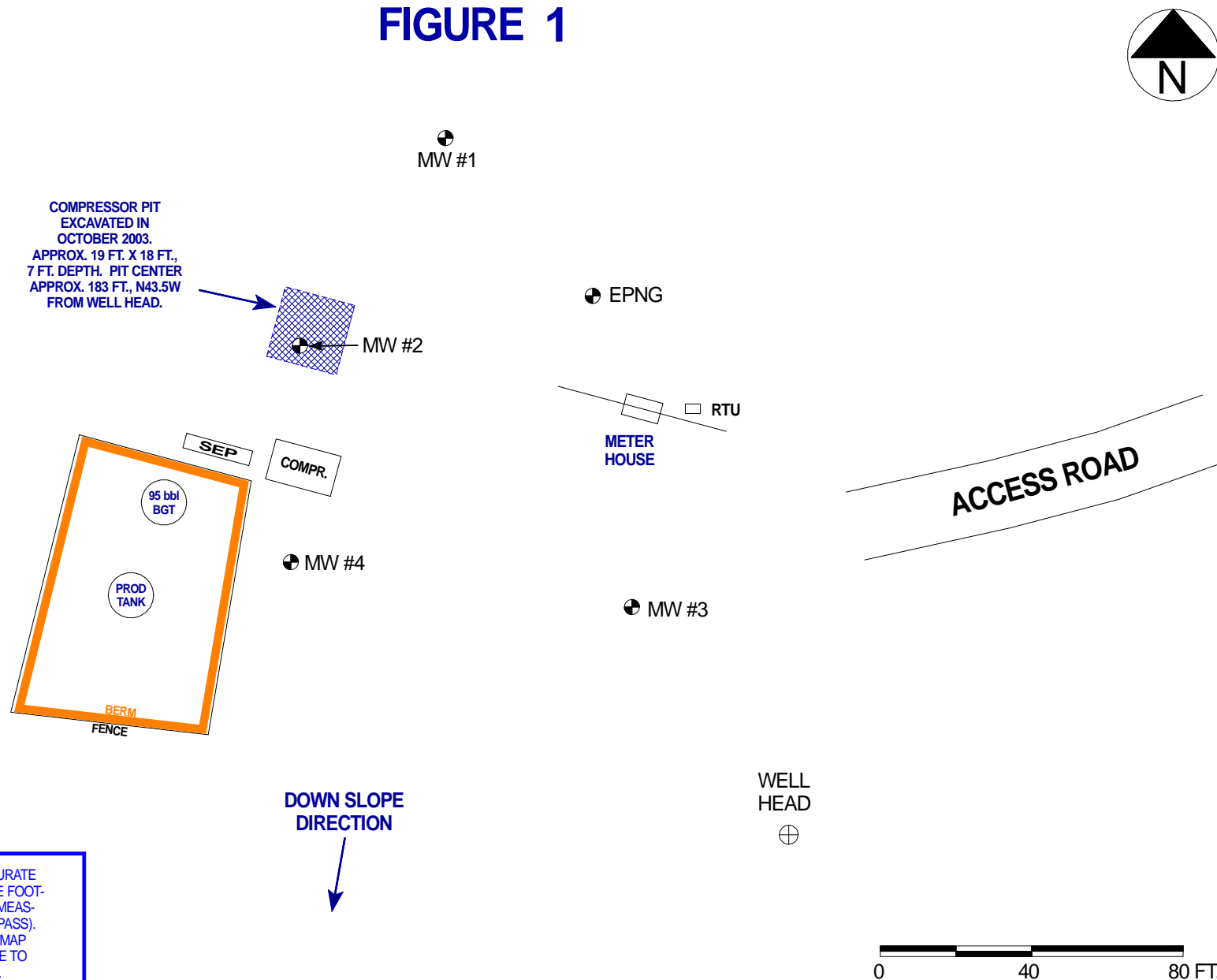
#### Soil Vapor Extraction System:

OVM readings collected during 2021 ranged from 8.15 parts per million (ppm) to 486 ppm. A summary of the SVE System Monitoring Data is included. No BTEX or other VOCs were detected in the gas sample collected from the SVE system. The HEAL gas sample laboratory report from the 2021 gas sampling event is included.

## Summary and/or Recommendations:

While benzene, ethylbenzene, and total xylenes remain above the NMWQCC standard in MW #2, the SVE system appears to have effectively removed the LNAPL previously observed in that monitoring well.

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 NC.

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

# SOIL VAPOR EXTRACTION DATA



**Salvador Gas Com A #001A  
SVE Monitoring Results  
Simcoe LLC**

Date	SVE Point	Exhaust OVM (ppm)	Exhaust Vacuum (in)	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	32	-	NO	-	Initial start up   bailed 3 gal. of prod. from MW #2
10/30/2018	MW-2	2,720	34	YES	NO	-	Dry drum
10/31/2018	MW-2	2,525	34	YES	NO	-	Dry drum
11/1/2018	MW-2	2,355	34	YES	NO	-	Dry drum, effluent air sample collected
11/2/2018	MW-2	1,978	33	YES	YES	2.00	Drained drum, restarted
11/5/2018	MW-2	1,433	32	YES	YES	4.00	Installed 1 inch PVC drain piping to LLPT, drained drum, restarted
11/13/2018	MW-2	890	34	YES	YES	23.00	Drained drum, restarted
11/16/2018	MW-2	1,016	32	YES	YES	7.00	Drained drum, restarted
11/21/2018	MW-2	370	34	YES	YES	12.00	Drained drum, restarted
11/26/2018	MW-2	555	34	YES	YES	13.00	Drained drum, restarted
12/4/2018	MW-2	629	34	YES	YES	25.50	Drained drum, restarted
12/10/2018	MW-2	501	34	YES	YES	18.50	Drained drum, restarted
12/17/2018	MW-2	325	34	YES	YES	22.00	Drained drum, restarted
12/24/2018	MW-2	342	33	YES	YES	20.50	Drained drum, restarted
12/31/2018	MW-2	355	34	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	34	YES	YES	18.50	Drained drum, restarted
1/15/2019	MW-2	372	34	YES	YES	19.50	
1/21/2019	MW-2	338	34	YES	YES	18.00	
1/26/2019	MW-2	350	34	YES	YES	17.00	
2/1/2019	MW-2	313	34	YES	YES	19.50	
2/7/2019	MW-2	316	33	YES	YES	15.50	
2/14/2019	MW-2	319	34	YES	YES	23.50	
2/20/2019	MW-2	260	33	YES	YES	22.00	
2/27/2019	MW-2	253	33	YES	YES	23.50	
3/5/2019	MW-2	252	32	YES	YES	12.00	
3/10/2019	MW-2	233	32	YES	YES	7.00	
3/18/2019	MW-2	254	32	YES	YES	18.00	
3/28/2019	MW-2	243	33	YES	YES	11.50	
4/16/2019	MW-2	222	32	YES	YES	20.50	
5/2/2019	MW-2	219	32	YES	YES	4.50	
5/28/2019	MW-2	207	32	YES	YES	10.50	
6/24/2019	MW-2	268	32	YES	NO	-	Water below drain plug, air sample collected
7/26/2019	MW-2	277	32	YES	NO	-	Dry drum
8/19/2019	MW-2	251	32	YES	NO	-	Dry drum



**Salvador Gas Com A #001A  
SVE Monitoring Results  
Simcoe LLC**

Date	SVE Point	Exhaust OVM (ppm)	Exhaust Vacuum (in)	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
9/19/2019	MW-2	281	32	YES	NO	-	Dry drum
10/8/2019	MW-2	227	25	YES	NO	-	Water in drum 0.50" above drain plug
10/22/2019	MW-2	241	35	YES	YES	14.00	
10/29/2019	MW-2	244	33	YES	YES	12.00	
11/12/2019	MW-2	656	33	NO	YES	25.50	Drained, restarted, collect data
11/22/2019	MW-2	NA	33	YES	YES	18.50	
12/6/2019	MW-2	NA	33	NO	YES	22.00	Drained, restarted
12/10/2019	MW-2	287	33	YES	YES	9.00	Drained, restarted after water sample collected
12/16/2019	MW-2	230	34	YES	YES	17.00	Drained, restarted
12/21/2019	MW-2	NA	34	NO	NO	-	Restarted, then collected exhaust data
12/24/2019	MW-2	NA	34	YES	YES	14.00	Drained, restarted
12/30/2019	MW-2	NA	34	NO	YES	12.00	Restarted, then collected exhaust data
1/4/2020	MW-2	468	33	NO	NO	-	Restarted, then collected data
1/6/2020	MW-2	NA	NA	NO	NO	-	
1/9/2020	MW-2	NA	16	NO	YES	10.50	Drained, restarted, then collected data
1/10/2020	MW-2	NA	18	NO	YES	10.50	Drained, restarted, then collected data
1/11/2020	MW-2	NA	34	NO	YES	5.50	Drained, restarted, then collected data
1/14/2020	MW-2	NA	33	YES	YES	9.00	Drained, restarted
1/22/2020	MW-2	NA	NA	NO	YES	14.00	Drained, restarted, then collected data
1/29/2020	MW-2	397	33	NO	NO	-	Water in drum below drain port
2/4/2020	MW-2	NA	32	NO	YES	20.50	Drained, restarted, then collected data
2/10/2020	MW-2	NA	32	YES	YES	23.50	Drained, restarted
2/18/2020	MW-2	NA	34	YES	YES	21.00	Drained, restarted
2/19/2020	MW-2	NA	34	YES	NO	-	Water level in drum not measured
2/25/2020	MW-2	NA	32	YES	YES	15.50	
3/4/2020	MW-2	215	30	NO	YES	15.50	Drained, restarted, then collected data
3/12/2020	MW-2	NA	29	NO	NO	-	Water in drum below drain port, restarted, then collected data
3/25/2020	MW-2	NA	30	YES	YES	14.00	
3/30/2020	MW-2	199	30	YES	YES	5.50	Shut down during MW sampling, drained, restarted
4/14/2020	MW-2	153	30	NO	YES	11.50	Drained, restarted, then collected data
4/28/2020	MW-2	NA	29	YES	NO	-	Water in drum below drain port, restarted
5/18/2020	MW-2	178	28	NO	NO	-	Water in drum below drain port, restarted
5/20/2020	MW-2	NA	29	YES	NO	-	Water level in drum not measured



**Salvador Gas Com A #001A  
SVE Monitoring Results  
Simcoe LLC**

Date	SVE Point	Exhaust OVM (ppm)	Exhaust Vacuum (in)	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
6/1/2020	MW-2	275	28	NO	NO	-	Water in drum below drain port, restarted, effluent air sample collected
6/24/2020	MW-2	116	26	NO	NO	-	Water in drum below drain port, restarted
7/29/2020	MW-2	64	26	NO	NO	-	Water level in drum not measured, restarted, then collected readings
8/21/2020	MW-2	238	27	NO	NO	-	Dry drum, restarted, then collected readings
9/1/2020	MW-2	107	28	YES	NO	-	Water level in drum not measured
9/14/2020	MW-2	111	29	YES	NO	-	Shut down prior to sampling, water in drum below drain port, restarted
9/24/2020	MW-2	76	29	YES	NO	-	Water in drum below drain port, restarted
10/9/2020	MW-2	NA	30	YES	NO	-	Water in drum just above drain port
10/22/2020	MW-2	61	29	YES	YES	9.50	
10/29/2020	MW-2	194	29	NO	YES	4.00	Drained, restarted, then collected data
11/5/2020	MW-2	NA	29	NO	YES	-	Water in drum below drain port, restarted, then collected readings
11/11/2020	MW-2	NA	30	YES	YES	10.50	
11/16/2020	MW-2	66	30	YES	YES	11.50	
11/23/2020	MW-2	NA	29	YES	YES	9.00	
12/4/2020	MW-2	NA	30	NO	YES	25.50	
12/10/2020	MW-2	NA	30	YES	YES	20.50	
12/15/2020	MW-2	NA	29	YES	YES	18.50	
12/21/2020	MW-2	NA	29	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	18	YES	NO	-	Water in drum below drain port
10/11/2021	MW-2	44	18	YES	YES	1.00	
11/6/2021	MW-2	465.9	18	NO	YES	26.32	Drained, restarted, then collected data
12/13/2021	MW-2	486	20	NO	YES	27.14	Drained, restarted, then collected data

**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



# Ground Water Monitor Well Data



**Salvador Gas Com A #001A  
Groundwater Sampling Results  
Simcoe LLC**

Well Name	Sample Date	Depth to Water (ft)	Well Depth (ft)	Conductivity (umhos)	Free Phase Product (ft)	pH	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW #1	12/09/11	34.97	39.00	3,100	-	7.46	280	1,000	50	540
MW #1	02/09/12	35.01	-	3,300	-	6.82	210	<5.0	9.3	230
MW #1	06/21/12	37.13	-	3,300	-	6.78	<1.0	<1.0	<1.0	1.3
MW #1	09/20/12	36.08	-	3,700	-	6.94	55	<1.0	<1.0	<2.0
MW #1	12/20/12	37.22	-	2,700	-	6.90	22	<1.0	<1.0	<2.0
MW #1	03/19/13	38.29	-	2,600	-	7.21	1.4	4.3	<1.0	41
MW #1	06/19/13	39.31	-	2,100	-	7.31	<1.0	<1.0	<1.0	<2.0
MW #1	08/20/21	dry	-	-	-	-	-	-	-	-
MW #1	12/08/21	dry	-	-	-	-	-	-	-	-
MW #2	08/30/11	33.54	37.25	2,400	-	7.38	990	6,700	710	10,000
MW #2	12/09/11	33.57	-	3,300	-	7.04	1,900	8,600	930	13,000
MW #2	02/09/12	33.56	-	2,800	-	6.90	1,900	7,500	800	12,000
MW #2	06/21/12	33.70	-	2,600	-	6.87	2,600	10,000	700	18,000
MW #2	09/20/12	33.78	-	2,600	-	6.90	2,200	9,900	970	47,000
MW #2	12/20/12	33.85	-	2,200	-	7.01	2,800	7,600	640	18,000
MW #2	03/19/13	33.95	-	-	0.21	-	-	-	-	-
MW #2	06/19/13	34.01	-	-	0.26	-	-	-	-	-
MW #2	08/26/13	33.98	-	-	0.11	-	-	-	-	-
MW #2	12/17/13	34.23	-	-	0.38	-	-	-	-	-
MW #2	03/11/14	34.21	-	-	0.39	-	-	-	-	-
MW #2	06/25/14	34.31	-	-	0.42	-	-	-	-	-
MW #2	08/28/14	34.05	-	-	0.23	-	-	-	-	-
MW #2	12/03/14	34.48	-	-	0.64	-	-	-	-	-
MW #2	03/31/15	34.60	-	-	0.68	-	-	-	-	-
MW #2	05/26/15	35.13	-	-	0.54	-	-	-	-	-
MW #2	08/29/15	34.39	-	-	>2.25	-	-	-	-	-
MW #2	11/30/15	34.66	-	-	>2.50	-	-	-	-	-
MW #2	02/24/16	35.95	-	-	-	-	-	-	-	-
MW #2	05/24/16	37.55	-	-	3.61	-	-	-	-	-
MW #2	09/23/16	37.89	-	-	3.24	-	-	-	-	-
MW #2	12/08/16	36.99	-	-	2.88	-	-	-	-	-
MW #2	03/31/17	36.83	-	-	-	-	-	-	-	-
MW #2	05/28/17	36.97	-	-	3.06	-	-	-	-	-
MW #2	09/12/17	36.74	-	-	-	-	-	-	-	-
MW #2	06/30/18	36.38	-	-	2.10	-	-	-	-	-
MW #2	09/27/18	-	-	-	>3.23	-	-	-	-	-
MW #2	03/28/19	34.15	-	1,700	-	7.01	1,400	230	1,500	23,000
MW #2	06/24/19	34.11	-	1,350	-	7.12	920	200	1,000	21,000
MW #2	09/19/19	34.31	-	1,050	-	6.92	920	<100	840	17,000
MW #2	12/10/20	34.13	-	1,200	-	7.17	800	<100	780	16,000
MW #2	03/30/20	34.13	-	1,500	-	7.14	570	<100	850	18,000
MW #2	06/01/20	35.53	-	1,300	-	6.98	570	<50	870	17,000
MW #2	09/14/20	36.96	-	1,300	-	7.01	620	150	790	15,000
MW #2	12/15/20	35.85	-	1,400	-	7.07	1,400	13	830	13,000
MW #2	03/04/21	-	-	-	-	-	1,400	ND	810	11,000
MW #2	06/09/21	-	-	-	-	-	2,500	ND	1,200	13,000
MW #2	08/20/21	36.46	-	3,030	-	7.52	1,900	ND	1,500	12,000
MW #2	12/08/21	37.80	-	2,790	-	7.35	1,600	ND	1,000	8,100
MW #3	08/20/21	dry	38.73	-	-	-	-	-	-	-
MW #3	12/08/21	dry	-	-	-	-	-	-	-	-
NMWQCC Groundwater Standard						6-9	5	1000	700	620



**Salvador Gas Com A #001A  
Groundwater Sampling Results  
Simcoe LLC**

Sample Date	Well Name	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)	TDS (mg/L)	Iron (mg/L)
06/19/13	MW #1	0.15	91	<b>2,200</b>	<0.10	<b>3,880</b>	<b>2.3</b>
<b>NMWQCC Groundwater Standard</b>		1.6	250.0	600.0	10.0	1000.0	1.0

**Notes:**

TDS - Total Dissolved Solids

ft - feet

mg/L - milligrams per liter

umhos - microhms

ppb - parts per billion

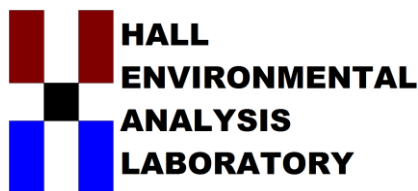
"- " - Indicates no data

NMWQCC - New Mexico Water Quality Control Commission

Depth to water measured from top of well casing

**Bold** values exceed NMWQCC Standard

# LABORATORY



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 17, 2021

Steve Moskal  
SIMCOE  
1100 Main St.  
Durango, CO 81301  
TEL: (505) 330-9179  
FAX:

RE: Sandoval GC A 001A

OrderNo.: 2103377

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/6/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2103377

Date Reported: 3/17/2021

CLIENT: SIMCOE

Client Sample ID: MW 102

Project: Sandoval GC A 001A

Collection Date: 3/4/2021 1:35:00 PM

Lab ID: 2103377-001

Matrix: GROUNDWA

Received Date: 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: JMR	
Benzene	1400	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Toluene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Ethylbenzene	810	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2,4-Trimethylbenzene	1200	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,3,5-Trimethylbenzene	730	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2-Dibromoethane (EDB)	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Naphthalene	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
1-Methylnaphthalene	ND	200		µg/L	100	3/16/2021 6:24:08 AM	A75948
2-Methylnaphthalene	ND	200		µg/L	100	3/16/2021 6:24:08 AM	A75948
Acetone	ND	500		µg/L	100	3/16/2021 6:24:08 AM	A75948
Bromobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Bromodichloromethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Bromoform	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Bromomethane	ND	150		µg/L	100	3/16/2021 6:24:08 AM	A75948
2-Butanone	ND	500		µg/L	100	3/16/2021 6:24:08 AM	A75948
Carbon disulfide	ND	500		µg/L	100	3/16/2021 6:24:08 AM	A75948
Carbon Tetrachloride	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Chlorobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Chloroethane	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
Chloroform	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Chloromethane	ND	150		µg/L	100	3/16/2021 6:24:08 AM	A75948
2-Chlorotoluene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
4-Chlorotoluene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
cis-1,2-DCE	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
cis-1,3-Dichloropropene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2-Dibromo-3-chloropropane	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
Dibromochloromethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Dibromomethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2-Dichlorobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,3-Dichlorobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,4-Dichlorobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Dichlorodifluoromethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,1-Dichloroethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,1-Dichloroethene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2-Dichloropropane	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,3-Dichloropropane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
2,2-Dichloropropane	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 1 of 5

## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2103377

Date Reported: 3/17/2021

CLIENT: SIMCOE

Client Sample ID: MW 102

Project: Sandoval GC A 001A

Collection Date: 3/4/2021 1:35:00 PM

Lab ID: 2103377-001

Matrix: GROUNDWA

Received Date: 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: JMR
1,1-Dichloropropene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Hexachlorobutadiene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
2-Hexanone	ND	500		µg/L	100	3/16/2021 6:24:08 AM	A75948
Isopropylbenzene	71	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
4-Isopropyltoluene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
4-Methyl-2-pentanone	ND	500		µg/L	100	3/16/2021 6:24:08 AM	A75948
Methylene Chloride	ND	150		µg/L	100	3/16/2021 6:24:08 AM	A75948
n-Butylbenzene	ND	150		µg/L	100	3/16/2021 6:24:08 AM	A75948
n-Propylbenzene	82	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
sec-Butylbenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Styrene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
tert-Butylbenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,1,1,2-Tetrachloroethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,1,2,2-Tetrachloroethane	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
Tetrachloroethene (PCE)	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
trans-1,2-DCE	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
trans-1,3-Dichloropropene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2,3-Trichlorobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2,4-Trichlorobenzene	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,1,1-Trichloroethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,1,2-Trichloroethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Trichloroethene (TCE)	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Trichlorofluoromethane	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
1,2,3-Trichloropropane	ND	100		µg/L	100	3/16/2021 6:24:08 AM	A75948
Vinyl chloride	ND	50		µg/L	100	3/16/2021 6:24:08 AM	A75948
Xylenes, Total	11000	75		µg/L	100	3/16/2021 6:24:08 AM	A75948
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	100	3/16/2021 6:24:08 AM	A75948
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	100	3/16/2021 6:24:08 AM	A75948
Surr: Dibromofluoromethane	94.3	70-130		%Rec	100	3/16/2021 6:24:08 AM	A75948
Surr: Toluene-d8	99.7	70-130		%Rec	100	3/16/2021 6:24:08 AM	A75948

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 2 of 5

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103377

17-Mar-21

**Client:** SIMCOE**Project:** Sandoval GC A 001A

Sample ID: <b>100ng lcs</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>A75948</b>		RunNo: <b>75948</b>						
Prep Date:		Analysis Date: <b>3/15/2021</b>		SeqNo: <b>2687603</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.7	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Chlorobenzene	20	1.0	20.00	0	98.4	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	80.2	70	130			
Trichloroethene (TCE)	15	1.0	20.00	0	76.7	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.7	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.3	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.3	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: <b>vsb fridge</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>		Batch ID: <b>A75948</b>		RunNo: <b>75948</b>						
Prep Date:		Analysis Date: <b>3/15/2021</b>		SeqNo: <b>2687604</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103377

17-Mar-21

Client: SIMCOE

Project: Sandoval GC A 001A

Sample ID: <b>vsb fridge</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A75948</b>	RunNo: <b>75948</b>								
Prep Date:	Analysis Date: <b>3/15/2021</b>	SeqNo: <b>2687604</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103377

17-Mar-21

Client: SIMCOE

Project: Sandoval GC A 001A

Sample ID: vsb fridge		SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW		Batch ID: A75948		RunNo: 75948						
Prep Date:		Analysis Date: 3/15/2021		SeqNo: 2687604		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.5	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

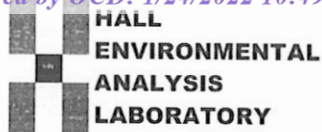
B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: SIMCOE

Work Order Number: 2103377

RcptNo: 1

Received By: Juan Rojas

3/6/2021 8:55:00 AM

*Juan Rojas*

Completed By: Desiree Dominguez

3/8/2021 8:15:22 AM

*DD*

Reviewed By:

*JR 3/8/21*Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by:

*TO*  
*3/8/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good				

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Chain-of-Custody Record				Turn-Around Time:	
Client: <u>Sincoe LLC</u>				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>Bill to IKA Energy</u>				Project Name: _____	
<u>1199 Main St. Ste 101</u>				Project #: _____	
<u>Orange CO 81301</u>				Project Manager: _____	
Phone #: <u>505 330 2119</u>				Sampler: <u>Steve Morkel</u>	
email or Fax#: <u>smorkel@ikaenergy.com</u>				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				# of Coolers: <u>1</u>	
Accreditation: <input type="checkbox"/> AZ Compliance				Cooler Temp (including CF): <u>0.4 - 0.2 = 0.2 (°C)</u>	
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____				Container Type and #	
<input type="checkbox"/> EDD (Type) _____				Preservative Type	
Date				HEAL No.	
Time				Matrix	
Sample Name				Type	
Date				Type and #	
Time				Type	
Sample Name				Type	
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Sample Name				Type	
Date				Type and #	
Time				Type	
Sample Name				Type	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

June 17, 2021

Steve Moskal  
SIMCOE  
1100 Main St.  
Durango, CO 81301  
TEL: (505) 330-9179  
FAX:

RE: Sandoval GC A 001A

OrderNo.: 2106556

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/10/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2106556

Date Reported: 6/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW 102

Project: Sandoval GC A 001A

Collection Date: 6/9/2021 1:15:00 PM

Lab ID: 2106556-001

Matrix: GROUNDWA

Received Date: 6/10/2021 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: JMR
Benzene	2500	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Toluene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Ethylbenzene	1200	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2,4-Trimethylbenzene	1600	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,3,5-Trimethylbenzene	990	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2-Dibromoethane (EDB)	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Naphthalene	140	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
1-Methylnaphthalene	ND	200		µg/L	100	6/16/2021 4:23:47 PM	R79124
2-Methylnaphthalene	ND	200		µg/L	100	6/16/2021 4:23:47 PM	R79124
Acetone	ND	500		µg/L	100	6/16/2021 4:23:47 PM	R79124
Bromobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Bromodichloromethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Bromoform	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Bromomethane	ND	150		µg/L	100	6/16/2021 4:23:47 PM	R79124
2-Butanone	ND	500		µg/L	100	6/16/2021 4:23:47 PM	R79124
Carbon disulfide	ND	500		µg/L	100	6/16/2021 4:23:47 PM	R79124
Carbon Tetrachloride	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Chlorobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Chloroethane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
Chloroform	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Chloromethane	ND	150		µg/L	100	6/16/2021 4:23:47 PM	R79124
2-Chlorotoluene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
4-Chlorotoluene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
cis-1,2-DCE	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
cis-1,3-Dichloropropene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2-Dibromo-3-chloropropane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
Dibromochloromethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Dibromomethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2-Dichlorobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,3-Dichlorobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,4-Dichlorobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Dichlorodifluoromethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,1-Dichloroethane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,1-Dichloroethene	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2-Dichloropropane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,3-Dichloropropane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
2,2-Dichloropropane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2106556

Date Reported: 6/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW 102

Project: Sandoval GC A 001A

Collection Date: 6/9/2021 1:15:00 PM

Lab ID: 2106556-001

Matrix: GROUNDWA

Received Date: 6/10/2021 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: JMR
1,1-Dichloropropene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Hexachlorobutadiene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
2-Hexanone	ND	500		µg/L	100	6/16/2021 4:23:47 PM	R79124
Isopropylbenzene	120	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
4-Isopropyltoluene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
4-Methyl-2-pentanone	ND	500		µg/L	100	6/16/2021 4:23:47 PM	R79124
Methylene Chloride	ND	150		µg/L	100	6/16/2021 4:23:47 PM	R79124
n-Butylbenzene	ND	150		µg/L	100	6/16/2021 4:23:47 PM	R79124
n-Propylbenzene	140	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
sec-Butylbenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Styrene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
tert-Butylbenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,1,1,2-Tetrachloroethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,1,2,2-Tetrachloroethane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
Tetrachloroethene (PCE)	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
trans-1,2-DCE	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
trans-1,3-Dichloropropene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2,3-Trichlorobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2,4-Trichlorobenzene	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,1,1-Trichloroethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,1,2-Trichloroethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Trichloroethene (TCE)	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Trichlorofluoromethane	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
1,2,3-Trichloropropane	ND	100		µg/L	100	6/16/2021 4:23:47 PM	R79124
Vinyl chloride	ND	50		µg/L	100	6/16/2021 4:23:47 PM	R79124
Xylenes, Total	13000	75		µg/L	100	6/16/2021 4:23:47 PM	R79124
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	100	6/16/2021 4:23:47 PM	R79124
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	100	6/16/2021 4:23:47 PM	R79124
Surr: Dibromofluoromethane	103	70-130		%Rec	100	6/16/2021 4:23:47 PM	R79124
Surr: Toluene-d8	110	70-130		%Rec	100	6/16/2021 4:23:47 PM	R79124

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106556

17-Jun-21

**Client:** SIMCOE  
**Project:** Sandoval GC A 001A

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>A79107</b>			RunNo: <b>79107</b>						
Prep Date:	Analysis Date: <b>6/15/2021</b>			SeqNo: <b>2776718</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.0	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>A79107</b>			RunNo: <b>79107</b>						
Prep Date:	Analysis Date: <b>6/15/2021</b>			SeqNo: <b>2776719</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.6	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>C79124</b>			RunNo: <b>79124</b>						
Prep Date:	Analysis Date: <b>6/16/2021</b>			SeqNo: <b>2777978</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.2	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID: <b>100ng lcs2</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>D79124</b>			RunNo: <b>79124</b>						
Prep Date:	Analysis Date: <b>6/17/2021</b>			SeqNo: <b>2777979</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>C79124</b>			RunNo: <b>79124</b>						
Prep Date:	Analysis Date: <b>6/16/2021</b>			SeqNo: <b>2777980</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106556

17-Jun-21

**Client:** SIMCOE  
**Project:** Sandoval GC A 001A

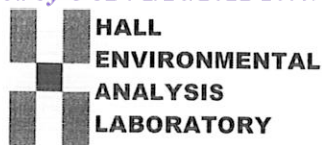
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>C79124</b>			RunNo: <b>79124</b>						
Prep Date:	Analysis Date: <b>6/16/2021</b>			SeqNo: <b>2777980</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.3	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.0	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: <b>mb2</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>D79124</b>			RunNo: <b>79124</b>						
Prep Date:	Analysis Date: <b>6/17/2021</b>			SeqNo: <b>2777981</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.4	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130			
Surr: Toluene-d8	9.9		10.00		99.2	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: SIMCOE

Work Order Number: 2106556

RcptNo: 1

Received By: Juan Rojas

6/10/2021 7:05:00 AM

*Juan Rojas*

Completed By: Cheyenne Cason

6/10/2021 8:25:28 AM

*Cason*

Reviewed By:

*JR 6/10/21*Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *KPG 6/10/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

August 31, 2021

Steve Moskal  
SIMCOE  
1100 Main St.  
Durango, CO 81301  
TEL: (505) 330-9179  
FAX:

RE: Sandoval GC A 1A

OrderNo.: 2108C76

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/24/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2108C76

Date Reported: 8/31/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #2

Project: Sandoval GC A 1A

Collection Date: 8/20/2021 11:20:00 AM

Lab ID: 2108C76-001

Matrix: AQUEOUS

Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
Benzene	1900	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Toluene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Ethylbenzene	1500	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2,4-Trimethylbenzene	2500	200		µg/L	200	8/28/2021 12:30:00 AM	R80854
1,3,5-Trimethylbenzene	1600	200		µg/L	200	8/28/2021 12:30:00 AM	R80854
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Naphthalene	200	40		µg/L	20	8/28/2021 12:53:00 AM	R80854
1-Methylnaphthalene	ND	80		µg/L	20	8/28/2021 12:53:00 AM	R80854
2-Methylnaphthalene	170	80		µg/L	20	8/28/2021 12:53:00 AM	R80854
Acetone	ND	200		µg/L	20	8/28/2021 12:53:00 AM	R80854
Bromobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Bromodichloromethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Bromoform	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Bromomethane	ND	60		µg/L	20	8/28/2021 12:53:00 AM	R80854
2-Butanone	ND	200		µg/L	20	8/28/2021 12:53:00 AM	R80854
Carbon disulfide	ND	200		µg/L	20	8/28/2021 12:53:00 AM	R80854
Carbon Tetrachloride	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Chlorobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Chloroethane	ND	40		µg/L	20	8/28/2021 12:53:00 AM	R80854
Chloroform	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Chloromethane	ND	60		µg/L	20	8/28/2021 12:53:00 AM	R80854
2-Chlorotoluene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
4-Chlorotoluene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
cis-1,2-DCE	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
cis-1,3-Dichloropropene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	8/28/2021 12:53:00 AM	R80854
Dibromochloromethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Dibromomethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2-Dichlorobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,3-Dichlorobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,4-Dichlorobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Dichlorodifluoromethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,1-Dichloroethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,1-Dichloroethene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2-Dichloropropane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,3-Dichloropropane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
2,2-Dichloropropane	ND	40		µg/L	20	8/28/2021 12:53:00 AM	R80854

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 1 of 5

## Analytical Report

Lab Order 2108C76

Date Reported: 8/31/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW #2

Project: Sandoval GC A 1A

Collection Date: 8/20/2021 11:20:00 AM

Lab ID: 2108C76-001

Matrix: AQUEOUS

Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
1,1-Dichloropropene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Hexachlorobutadiene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
2-Hexanone	ND	200		µg/L	20	8/28/2021 12:53:00 AM	R80854
Isopropylbenzene	270	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
4-Isopropyltoluene	150	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
4-Methyl-2-pentanone	ND	200		µg/L	20	8/28/2021 12:53:00 AM	R80854
Methylene Chloride	ND	60		µg/L	20	8/28/2021 12:53:00 AM	R80854
n-Butylbenzene	86	60		µg/L	20	8/28/2021 12:53:00 AM	R80854
n-Propylbenzene	340	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
sec-Butylbenzene	100	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Styrene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
tert-Butylbenzene	20	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	8/28/2021 12:53:00 AM	R80854
Tetrachloroethene (PCE)	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
trans-1,2-DCE	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
trans-1,3-Dichloropropene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2,3-Trichlorobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2,4-Trichlorobenzene	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,1,1-Trichloroethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,1,2-Trichloroethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Trichloroethene (TCE)	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Trichlorofluoromethane	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
1,2,3-Trichloropropane	ND	40		µg/L	20	8/28/2021 12:53:00 AM	R80854
Vinyl chloride	ND	20		µg/L	20	8/28/2021 12:53:00 AM	R80854
Xylenes, Total	12000	300		µg/L	200	8/28/2021 12:30:00 AM	R80854
Surr: 1,2-Dichloroethane-d4	76.8	70-130		%Rec	20	8/28/2021 12:53:00 AM	R80854
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	20	8/28/2021 12:53:00 AM	R80854
Surr: Dibromofluoromethane	77.5	70-130		%Rec	20	8/28/2021 12:53:00 AM	R80854
Surr: Toluene-d8	136	70-130	S	%Rec	20	8/28/2021 12:53:00 AM	R80854

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 5

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108C76

31-Aug-21

**Client:** SIMCOE  
**Project:** Sandoval GC A 1A

Sample ID: <b>100ng 8260 lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R80854</b>			RunNo: <b>80854</b>						
Prep Date:	Analysis Date: <b>8/27/2021</b>			SeqNo: <b>2853387</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.5	70	130			
Toluene	19	1.0	20.00	0	96.1	70	130			
Chlorobenzene	19	1.0	20.00	0	93.9	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	84.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	83.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	7.9		10.00		79.3	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R80854</b>			RunNo: <b>80854</b>						
Prep Date:	Analysis Date: <b>8/27/2021</b>			SeqNo: <b>2853388</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108C76

31-Aug-21

**Client:** SIMCOE  
**Project:** Sandoval GC A 1A

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R80854</b>			RunNo: <b>80854</b>						
Prep Date:	Analysis Date: <b>8/27/2021</b>			SeqNo: <b>2853388</b>	Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108C76  
31-Aug-21

Client: SIMCOE  
Project: Sandoval GC A 1A

Sample ID: <b>mb</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>		Batch ID: <b>R80854</b>		RunNo: <b>80854</b>						
Prep Date:		Analysis Date: <b>8/27/2021</b>		SeqNo: <b>2853388</b>			Units: <b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.3		10.00		82.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.2	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: SIMCOE

Work Order Number: 2108C76

RcptNo: 1

Received By: Cheyenne Cason

8/24/2021 7:00:00 AM

Completed By: Sean Livingston

8/24/2021 11:37:47 AM

Reviewed By:

WPA 8/24/21

Chad

S. Livingston

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by: SPA 8.24.21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				
2	1.1	Good				
3	1.0	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

December 16, 2021

Julie Best  
SIMCOE  
1100 Main St.  
Durango, CO 81301  
TEL: (505) 330-9179  
FAX:

RE: Sandoval GC A 1A

OrderNo.: 2112691

Dear Julie Best:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/9/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2112691

Date Reported: 12/16/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW#2

Project: Sandoval GC A 1A

Collection Date: 12/8/2021 12:15:00 PM

Lab ID: 2112691-001

Matrix: AQUEOUS

Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: JR
Benzene	1600	20		µg/L	20	12/14/2021 2:56:12 AM
Toluene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Ethylbenzene	1000	20		µg/L	20	12/14/2021 2:56:12 AM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2,4-Trimethylbenzene	1900	200		µg/L	200	12/14/2021 2:27:54 AM
1,3,5-Trimethylbenzene	1500	20		µg/L	20	12/14/2021 2:56:12 AM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Naphthalene	140	40		µg/L	20	12/14/2021 2:56:12 AM
1-Methylnaphthalene	ND	80		µg/L	20	12/14/2021 2:56:12 AM
2-Methylnaphthalene	110	80		µg/L	20	12/14/2021 2:56:12 AM
Acetone	ND	200		µg/L	20	12/14/2021 2:56:12 AM
Bromobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Bromodichloromethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Bromoform	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Bromomethane	ND	60		µg/L	20	12/14/2021 2:56:12 AM
2-Butanone	ND	200		µg/L	20	12/14/2021 2:56:12 AM
Carbon disulfide	ND	200		µg/L	20	12/14/2021 2:56:12 AM
Carbon Tetrachloride	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Chlorobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Chloroethane	ND	40		µg/L	20	12/14/2021 2:56:12 AM
Chloroform	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Chloromethane	ND	60		µg/L	20	12/14/2021 2:56:12 AM
2-Chlorotoluene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
4-Chlorotoluene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
cis-1,2-DCE	ND	20		µg/L	20	12/14/2021 2:56:12 AM
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/14/2021 2:56:12 AM
Dibromochloromethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Dibromomethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2-Dichlorobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,3-Dichlorobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,4-Dichlorobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Dichlorodifluoromethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,1-Dichloroethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,1-Dichloroethene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2-Dichloropropane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,3-Dichloropropane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
2,2-Dichloropropane	ND	40		µg/L	20	12/14/2021 2:56:12 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 1 of 5

## Analytical Report

Lab Order 2112691

Date Reported: 12/16/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: MW#2

Project: Sandoval GC A 1A

Collection Date: 12/8/2021 12:15:00 PM

Lab ID: 2112691-001

Matrix: AQUEOUS

Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: JR
1,1-Dichloropropene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Hexachlorobutadiene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
2-Hexanone	ND	200		µg/L	20	12/14/2021 2:56:12 AM
Isopropylbenzene	150	20		µg/L	20	12/14/2021 2:56:12 AM
4-Isopropyltoluene	82	20		µg/L	20	12/14/2021 2:56:12 AM
4-Methyl-2-pentanone	ND	200		µg/L	20	12/14/2021 2:56:12 AM
Methylene Chloride	ND	60		µg/L	20	12/14/2021 2:56:12 AM
n-Butylbenzene	ND	60		µg/L	20	12/14/2021 2:56:12 AM
n-Propylbenzene	180	20		µg/L	20	12/14/2021 2:56:12 AM
sec-Butylbenzene	41	20		µg/L	20	12/14/2021 2:56:12 AM
Styrene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
tert-Butylbenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/14/2021 2:56:12 AM
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/14/2021 2:56:12 AM
trans-1,2-DCE	ND	20		µg/L	20	12/14/2021 2:56:12 AM
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,1,1-Trichloroethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,1,2-Trichloroethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Trichloroethene (TCE)	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Trichlorofluoromethane	ND	20		µg/L	20	12/14/2021 2:56:12 AM
1,2,3-Trichloropropane	ND	40		µg/L	20	12/14/2021 2:56:12 AM
Vinyl chloride	ND	20		µg/L	20	12/14/2021 2:56:12 AM
Xylenes, Total	8100	300		µg/L	200	12/14/2021 2:27:54 AM
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	20	12/14/2021 2:56:12 AM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	20	12/14/2021 2:56:12 AM
Surr: Dibromofluoromethane	91.8	70-130		%Rec	20	12/14/2021 2:56:12 AM
Surr: Toluene-d8	110	70-130		%Rec	20	12/14/2021 2:56:12 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 2 of 5

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112691

16-Dec-21

**Client:** SIMCOE  
**Project:** Sandoval GC A 1A

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R84495</b>			RunNo: <b>84495</b>						
Prep Date:	Analysis Date: <b>12/13/2021</b>			SeqNo: <b>2969399</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.3	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.1	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.6	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R84495</b>			RunNo: <b>84495</b>						
Prep Date:	Analysis Date: <b>12/13/2021</b>			SeqNo: <b>2969421</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2112691

16-Dec-21

**Client:** SIMCOE  
**Project:** Sandoval GC A 1A

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R84495</b>	RunNo: <b>84495</b>								
Prep Date:	Analysis Date: <b>12/13/2021</b>	SeqNo: <b>2969421</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112691

16-Dec-21

Client: SIMCOE

Project: Sandoval GC A 1A

Sample ID: <b>mb</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>						
Client ID: <b>PBW</b>		Batch ID: <b>R84495</b>		RunNo: <b>84495</b>						
Prep Date:		Analysis Date: <b>12/13/2021</b>		SeqNo: <b>2969421</b>			Units: <b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.9	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	9.8		10.00		98.5	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

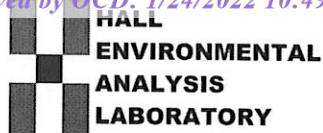
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: SIMCOE

Work Order Number: 2112691

RcptNo: 1

Received By: Tracy Casarrubias 12/9/2021 7:25:00 AM

Completed By: Tracy Casarrubias 12/9/2021 3:15:40 PM

Reviewed By: KRC 12/10/21

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? ☐

Checked by: JR 12/10/21

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date: By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In PersonRegarding: Client Instructions: 

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.25	Good	Yes			

## Chain-of-Custody Record

Client: **Simcoe LLC**

---

Mailing Address: **1199 Main Ave Suite 101**  
**Durango, CO 81301**

---

Phone #: **970-394-0131**

---

email or Fax#: **julie.best@ikavenergy.com**

---

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

---

Accreditation: ☐ Az Compliance  
☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type)

Turn-Around Time:

☒ Standard      ☐ Rush

Project Name:  
Sandoval GC A #1A

Project #:

Project Manager:  
Julie Best

Sampler: Emma Millar

On Ice:      ☒ Yes      ☐ No

# of Coolers: 1

Cooler Temp (including CF):  $31 - 0 = 3.1$



[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 01, 2021

Steve Moskal  
SIMCOE  
1100 Main St.  
Durango, CO 81301  
TEL: (505) 330-9179  
FAX

RE: Sandoval GC A 1A

OrderNo.: 2108C71

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/24/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2108C71

Date Reported: 9/1/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: SVE (MW2)

Project: Sandoval GC A 1A

Collection Date: 8/20/2021 10:45:00 AM

Lab ID: 2108C71-001

Matrix: AIR

Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Toluene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Ethylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Naphthalene	ND	0.20		µg/L	1	8/24/2021 4:55:00 PM	R80746
1-Methylnaphthalene	ND	0.40		µg/L	1	8/24/2021 4:55:00 PM	R80746
2-Methylnaphthalene	ND	0.40		µg/L	1	8/24/2021 4:55:00 PM	R80746
Acetone	ND	1.0		µg/L	1	8/24/2021 4:55:00 PM	R80746
Bromobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Bromodichloromethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Bromoform	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Bromomethane	ND	0.20		µg/L	1	8/24/2021 4:55:00 PM	R80746
2-Butanone	ND	1.0		µg/L	1	8/24/2021 4:55:00 PM	R80746
Carbon disulfide	ND	1.0		µg/L	1	8/24/2021 4:55:00 PM	R80746
Carbon tetrachloride	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Chlorobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Chloroethane	ND	0.20		µg/L	1	8/24/2021 4:55:00 PM	R80746
Chloroform	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Chloromethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
2-Chlorotoluene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
4-Chlorotoluene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
cis-1,2-DCE	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	8/24/2021 4:55:00 PM	R80746
Dibromochloromethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Dibromomethane	ND	0.20		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2-Dichlorobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,3-Dichlorobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,4-Dichlorobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Dichlorodifluoromethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,1-Dichloroethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,1-Dichloroethene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2-Dichloropropane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,3-Dichloropropane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
2,2-Dichloropropane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 2

## Analytical Report

Lab Order 2108C71

Date Reported: 9/1/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE

Client Sample ID: SVE (MW2)

Project: Sandoval GC A 1A

Collection Date: 8/20/2021 10:45:00 AM

Lab ID: 2108C71-001

Matrix: AIR

Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
1,1-Dichloropropene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Hexachlorobutadiene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
2-Hexanone	ND	1.0		µg/L	1	8/24/2021 4:55:00 PM	R80746
Isopropylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
4-Isopropyltoluene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
4-Methyl-2-pentanone	ND	1.0		µg/L	1	8/24/2021 4:55:00 PM	R80746
Methylene chloride	ND	0.30		µg/L	1	8/24/2021 4:55:00 PM	R80746
n-Butylbenzene	ND	0.30		µg/L	1	8/24/2021 4:55:00 PM	R80746
n-Propylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
sec-Butylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Styrene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
tert-Butylbenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
trans-1,2-DCE	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,1,1-Trichloroethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,1,2-Trichloroethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Trichloroethene (TCE)	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Trichlorofluoromethane	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
1,2,3-Trichloropropane	ND	0.20		µg/L	1	8/24/2021 4:55:00 PM	R80746
Vinyl chloride	ND	0.10		µg/L	1	8/24/2021 4:55:00 PM	R80746
Xylenes, Total	ND	0.15		µg/L	1	8/24/2021 4:55:00 PM	R80746
Surr: Dibromofluoromethane	84.9	70-130		%Rec	1	8/24/2021 4:55:00 PM	R80746
Surr: 1,2-Dichloroethane-d4	85.2	70-130		%Rec	1	8/24/2021 4:55:00 PM	R80746
Surr: Toluene-d8	98.1	70-130		%Rec	1	8/24/2021 4:55:00 PM	R80746
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	8/24/2021 4:55:00 PM	R80746

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 2





## ANALYTICAL SUMMARY REPORT

September 01, 2021

Hall Environmental  
 4901 Hawkins St NE Ste D  
 Albuquerque, NM 87109-4372

Work Order: G21080482

Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 8/27/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G21080482-001	2108C71-001; SVE(MW2)	08/20/21 10:45	08/27/21	Gas	Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo- Critical Pressure Natural Gas Analysis - Psuedo- Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperature Base

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, 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.

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

Report Approved By:



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Hall Environmental  
**Project:** Not Indicated  
**Client Sample ID:** 2108C71-001; SVE(MW2)  
**Location:**  
**Lab ID:** G21080482-001

**Report Date:** 09/01/21  
**Collection Date:** 08/20/21 10:45  
**Date Received:** 08/27/21  
**Sampled By:** Not Provided

### Analyses

**Result Units Qualifier Method Analysis Date / By**

### NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT

Oxygen	22.272 Mol %	GPA 2261	08/31/21 14:28 / djb
Nitrogen	77.695 Mol %	GPA 2261	08/31/21 14:28 / djb
Carbon Dioxide	0.033 Mol %	GPA 2261	08/31/21 14:28 / djb
Hydrogen Sulfide	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
Methane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
Ethane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
Propane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
Isobutane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
n-Butane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
Isopentane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
n-Pentane	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb
Hexanes plus	< 0.001 Mol %	GPA 2261	08/31/21 14:28 / djb

### GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS

GPM Ethane	< 0.0003 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM Propane	< 0.0003 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM Isobutane	< 0.0003 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM n-Butane	< 0.0003 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM Isopentane	< 0.0004 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM n-Pentane	< 0.0004 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM Hexanes plus	< 0.0004 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM Pentanes plus	< 0.0004 gal/MCF	GPA 2261	08/31/21 14:28 / djb
GPM Total	< 0.0004 gal/MCF	GPA 2261	08/31/21 14:28 / djb

### CALCULATED PROPERTIES

Calculation Pressure Base	14.730 psia	GPA 2261	08/31/21 14:28 / djb
Calculation Temperature Base	60 °F	GPA 2261	08/31/21 14:28 / djb
Compressibility Factor, Z	1.0000 unitless	GPA 2261	08/31/21 14:28 / djb
Molecular Weight	28.91 unitless	GPA 2261	08/31/21 14:28 / djb
Pseudo-critical Pressure, psia	547 psia	GPA 2261	08/31/21 14:28 / djb
Pseudo-critical Temperature, deg R	239 deg R	GPA 2261	08/31/21 14:28 / djb
Specific Gravity (air=1.000)	1.001 unitless	GPA 2261	08/31/21 14:28 / djb
Gross BTU per cu ft @ std cond, dry	< 0.01 BTU/cu ft	GPA 2261	08/31/21 14:28 / djb
Gross BTU per cu ft @ std cond, wet	< 0.01 BTU/cu ft	GPA 2261	08/31/21 14:28 / djb

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

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



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## QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G21080482

Report Date: 09/01/21

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: GPA 2261</b>							Analytical Run: R266561		
<b>Lab ID: ICV-2108311251</b>	Initial Calibration Verification Standard							08/31/21 12:52	
Oxygen	0.386	Mol %	0.001	96	75	110			
Nitrogen	5.098	Mol %	0.001	102	90	110			
Carbon Dioxide	4.902	Mol %	0.001	99	90	110			
Hydrogen Sulfide	0.124	Mol %	0.001	125	100	136			
Methane	73.180	Mol %	0.001	100	90	110			
Ethane	5.011	Mol %	0.001	101	90	110			
Propane	5.019	Mol %	0.001	101	90	110			
Isobutane	2.001	Mol %	0.001	100	90	110			
n-Butane	1.982	Mol %	0.001	99	90	110			
Isopentane	0.990	Mol %	0.001	99	90	110			
n-Pentane	0.999	Mol %	0.001	100	90	110			
Hexanes plus	0.308	Mol %	0.001	102	90	110			
<b>Lab ID: CCV-2108311301</b>	Continuing Calibration Verification Standard							08/31/21 13:01	
Oxygen	0.597	Mol %	0.001	99	90	110			
Nitrogen	1.272	Mol %	0.001	91	85	110			
Carbon Dioxide	0.951	Mol %	0.001	95	90	110			
Hydrogen Sulfide	0.031	Mol %	0.001	124	70	130			
Methane	93.565	Mol %	0.001	100	90	110			
Ethane	1.016	Mol %	0.001	102	90	110			
Propane	1.015	Mol %	0.001	101	90	110			
Isobutane	0.498	Mol %	0.001	99	90	110			
n-Butane	0.498	Mol %	0.001	99	90	110			
Isopentane	0.201	Mol %	0.001	100	90	110			
n-Pentane	0.201	Mol %	0.001	100	90	110			
Hexanes plus	0.155	Mol %	0.001	103	90	110			
<b>Lab ID: CCV-2108311525</b>	Continuing Calibration Verification Standard							08/31/21 15:26	
Oxygen	0.614	Mol %	0.001	102	90	110			
Nitrogen	1.322	Mol %	0.001	94	85	110			
Carbon Dioxide	0.956	Mol %	0.001	96	90	110			
Hydrogen Sulfide	0.032	Mol %	0.001	128	70	130			
Methane	93.510	Mol %	0.001	100	90	110			
Ethane	1.013	Mol %	0.001	101	90	110			
Propane	1.012	Mol %	0.001	101	90	110			
Isobutane	0.494	Mol %	0.001	99	90	110			
n-Butane	0.494	Mol %	0.001	99	90	110			
Isopentane	0.199	Mol %	0.001	99	90	110			
n-Pentane	0.200	Mol %	0.001	100	90	110			
Hexanes plus	0.154	Mol %	0.001	103	90	110			
<b>Method: GPA 2261</b>							Batch: R266561		
<b>Lab ID: G21080482-001ADUP</b>	Sample Duplicate							Run: Varian GC_210831A	
Oxygen	22.270	Mol %	0.001				0.0	10	08/31/21 14:32

### Qualifiers:

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## QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G21080482

Report Date: 09/01/21

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261							Batch: R266561		
Lab ID: G21080482-001ADUP		Sample Duplicate		Run: Varian GC_210831A			08/31/21 14:32		
Nitrogen	77.697	Mol %	0.001				0.0	10	
Carbon Dioxide	0.033	Mol %	0.001				0.0	10	
Hydrogen Sulfide	< 0.001	Mol %	0.001					10	
Methane	< 0.001	Mol %	0.001					10	
Ethane	< 0.001	Mol %	0.001					10	
Propane	< 0.001	Mol %	0.001					10	
Isobutane	< 0.001	Mol %	0.001					10	
n-Butane	< 0.001	Mol %	0.001					10	
Isopentane	< 0.001	Mol %	0.001					10	
n-Pentane	< 0.001	Mol %	0.001					10	
Hexanes plus	< 0.001	Mol %	0.001					10	

### Qualifiers:

RL - Analyte Reporting Limit

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# Work Order Receipt Checklist

Hall Environmental

G21080482

Login completed by: Chantel S. Johnson

Date Received: 8/27/2021

Reviewed by: Misty Stephens

Received by: csj

Reviewed Date: 8/31/2021

Carrier name: FedEx

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 checked="" type="checkbox"/>	No <input 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 type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Container/Temp Blank temperature:	°C		
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.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

## Contact and Corrective Action Comments:

None



CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975  
FAX: 505-345-4107  
Website: clients.hallenvironmental.com

SUB CONTRACTOR: Energy Labs-Gillette		COMPANY: Energy Laboratories		PHONE: (866) 686-7175	FAX:		
ADDRESS: 400 W Boxelder Rd				ACCOUNT #:	EMAIL:		
CITY, STATE, ZIP: Gillette, WY 82718							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2108C71-001A	SVE (MM2)	TEDLAR	Air	8/20/2021 10:45:00 AM	1	
Natural Gases CO2, O2							

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

G21080782

Relinquished By: <i>See</i>	Date: 8/24/2021	Time: 11:22 AM	Received By: <i>Dr. Johnson</i>	Date: 8/27/2021	Time: 12:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard <input checked="" type="checkbox"/> RUSH	Next BD: <input type="checkbox"/>	2nd BD: <input type="checkbox"/>	3rd BD: <input type="checkbox"/>		
REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE				FOR LAB USE ONLY	
Temp of samples: 1				Attempt to Cool? N/A	
Comments: Custody Tape					





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **SIMCOE**Work Order Number: **2108C71**

RcptNo: 1

Received By: **Cheyenne Cason** 8/24/2021 7:00:00 AMCompleted By: **Sean Livingston** 8/24/2021 11:21:08 AMReviewed By: **SPA 8.24.21**

*Chad*  
*Sean Livingston*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☐ NA ☒
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *KPL 8/24/21*

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good				

Released to Imaging: 1/19/2024 11:03:15 AM

☐ EDD (Type)

Sample Temperature: 14

## Analysis Request

Received by OCD: 1/24/2022 10:49:55 AM

Air Bubbles (Y or N)

Page 34 of 35

**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 74648

CONDITIONS

Operator:  SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number:
	74648
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2021 Sandoval Gas Com A 001A: Content Satisfactory 1. Continue to conduct groundwater monitoring on a quarterly schedule as prescribed by NMOCD. 2. Consider options for further abatement and propose to OCD if necessary 3. Continue to submit reports annually by April 1, 2024.	1/19/2024