## SIMCOE LLC

(formerly BPX Energy Inc.)

#### REVIEWED

By Mike Buchanan at 3:13 pm, Sep 07, 2023

### REMEDIATION REPORT

Review of the SIMCOE LLC Remediation Report: Content Satisfactory 1. Continue to conduct quarterly groundwater monitoring 2. Continue to operate the SVE system and submit reports regularly 3. Submit the 2023 Remediation Report by or before April 1, 2024.

MUDGE B 012R (A) SECTION 17, T31N, R11W, 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 Mudge B # 12R

#### Unit Letter A, Sec. 17, T31N, R11W

Incident #: nCS1528741396

API #: 3004510792

12/28/16, 03/15/17, 06/30/17, 09/20/17, 12/20/17, 03/26/18, 06/28/18, 09/26/18,

Monitor Well Sampling Dates: 12/19/18, 03/29/19, 06/28/19, 09/18/19, 12/19/19, 03/31/20, 06/08/20, 09/17/20,

12/16/20, 03/02/21, 03/03/2021, 06/10/2021, 08/20/2021, 12/08/2021.

Soil Vapor Extraction System Installation: May 2019

#### **Background:**

In September 2015, a historical production pit was discovered on the Mudge B #012R well site during a below-grade tank (BGT) replacement project. Soil boring results confirmed the presence of impacted soils at the location of the former pit. Three groundwater monitoring wells, MW #1, MW #2, and MW #3, were installed in areas upgradient of impacts, downgradient of impacts, and at the source of impacts, respectively, within the project area. In May 2019, an SVE system was installed at the Mudge B #012R. The system has been extracting from SVE Point #1 since it commenced operation.

#### **Groundwater Monitor Well Sampling Procedures:**

Groundwater sampling was conducted on March 2, March 3, June 10, August 20, and December 8, 2021. Prior to groundwater sample collection, depth-to-water measurements were collected, then approximately three wellbore volumes were purged from each well 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 monitor well purging were managed by discarding into the separator below-grade tank (BGT) located on the well site. The BGT contents are eventually disposed 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 December 2016. Weekly to monthly monitoring has been ongoing since then. During the regular monitoring, observations are made about the SVE system operation and general condition, organic vapor meter (OVM) readings are collected from the exhaust of the SVE unit, vacuum pressure on the unit is noted, and the quantity of water within the drum located on the unit is noted and the drum drained, if required.

Annual gas samples are also collected from the SVE unit and analyzed for Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics (GRO) by US EPA Method 8015D and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US EPA Method 8021B.

#### Summary:

Quarterly sampling of MW #1, installed upgradient of the source of impacts, took place from December 2016 to March 2021. In March 2021, results indicated that the monitoring well had achieved BTEX levels below the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards for eight consecutive quarters. Quarterly sampling of MW #3, installed at the source of impacts, was conducted from December 2016 to December 2021. In December 2021, results indicated that MW #3 had achieved BTEX levels below the NMWQCC standard for eight consecutive quarters.

No BTEX was detected in MW #2 during the 2021 sampling events; however, benzene was above the NMWQCC standard in the June 2020 sampling event, so this groundwater monitoring well has not achieved BTEX levels below the NMWQCC standard for eight consecutive quarters. Two groundwater monitoring wells have achieved eight or more consecutive quarters of sample results below the NMWQCC standard. Monitoring at MW #2 will continue until that monitoring well also achieves eight consecutive quarters below the NMWQCC standard. A groundwater sampling results table is included and the HEAL groundwater sampling laboratory reports from the 2021 groundwater sampling are included.

OVM readings collected during 2021 ranged from 185.2 parts per million (ppm) to 1,210 ppm. A summary of the SVE System Monitoring Data is included. TPH GRO and BTEX 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.

#### Conclusion:

Two of the monitoring wells have achieved BTEX levels below the NMWQCC standard for eight consecutive quarters.

# SOIL VAPOR

# **EXTRACTION**

**DATA** 

## SIMCOE LLC - Mudge B 012R

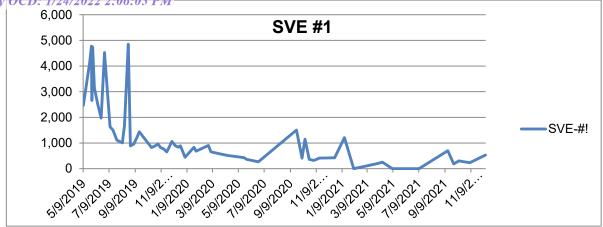
## **Summary SVE System Monitoring Data**

Date	SVE Pt.	Exhaust	Exhaust	Generator	System	H <sub>2</sub> O	H <sub>2</sub> O Amt.	Comments
Date	OVE I L.	OVM	Vacuum	Run Time	Operational	Drained	Drained	Comments
		(ppm)	(in)		at Time of	from	(Gal.)?	
					Arrival?	drum?		
5/9/2019	#1	2,467	30	-	NO	NO		Initial start up
5/13/2019	#1	-	NA	-	NO	NO		Generator not operational.
5/16/2019	#1	-	NA	-	NO	NO		Generator not operational (2nd visit)
5/16/2019	#1	-	NA	-	NO	NO		Generator not operational (2nd visit)
5/24/2019	#1	4,133	-	-	YES	NO		Water level in drum not measured
5/28/2019	#1	4,776	44	-	YES	NO		
5/29/2019	#1	2,658	44	-	YES	NO		
5/30/2019	#1	3,158	44	-	YES	NO		
5/31/2019	#1	4,736	44	-	YES	NO		
6/4/2019	#1	3,146	44	28,539.3	YES	NO		
6/12/2019	#1	2,510	45	28,726.2	YES	NO		Water level in drum not measured
6/20/2019	#1	1,970	44	28,922.3	YES	NO		
6/28/2019	#1	4,526	46	29,110.6	YES	NO		
7/5/2019	#1	-	44	29,278.0	YES	YES	9.50	
7/11/2019	#1	1,629	45	29,426.2	YES	NO		Water level below drain plug
7/18/2019	#1	1,503	45	29,591.5	YES	NO		Dry drum
7/27/2019	#1	1,114	46	29,806.8	YES	NO		Water level below drain plug
8/9/2019	#1	1,004	46	30,120.4	YES	NO		Dry drum
8/14/2019	#1	1,691	46	30,240.0	YES	NO		Water level below drain plug
8/23/2019	#1	4,851	45	30,368.7	NO	NO		Generator not operational at time of arrival (GNO); restarted, then collected readings, dry drum
8/28/2019	#1	886	45	30,422.1	YES	NO		Water level below drain plug
9/5/2019	#1	957	46	30,612.1	YES	NO		Water level below drain plug
9/12/2019	#1	1,200	46	30,725.9	NO	NO		GNO; restarted, then collected readings, water level below drain plug
9/18/2019	#1	1,437	46	30,731.8	NO	NO		GNO; restarted, then collected readings, water level below drain plug
9/25/2019	#1	3,242	46	NA	YES	NO		GNO 45 min. prior to arrival, system shut down after readings
10/1/2019	#1	-	-	NA	NO	NO		GNO; did not measure water in drum or restarted generator
10/8/2019	#1	-	-	30,733.9	NO	NO		GNO; restart only lasted 15 sec.; water level below drain plug
10/17/2019	#1	822	46	30,900.1	YES	YES	9.50	
10/23/2019	#1	-	-	30,991.7	NO	NO		GNO; did not measure water in drum or restarted generator
10/28/2019	#1	912	46	31,064.5	YES	YES	10.50	
11/1/2019	#1	963	46	31,165.0	YES	YES	14.00	
11/7/2019	#1	823	46	31,306.9	YES	YES	13.00	

## SIMCOE LLC - Mudge B 012R

## **Summary SVE System Monitoring Data**

Date	SVE Pt.	Exhaust	Exhaust	Generator	System	H <sub>2</sub> O	H <sub>2</sub> O Amt.	Comments
Date	OVLI L.	OVM	Vacuum	Run Time	Operational	Drained	Drained	Comments
		(ppm)	(in)	rtan riine	at Time of	from	(Gal.)?	
		(11 /	( )		Arrival?	drum?	(00).	
44/44/0040	" 4		40	0.4.470.0	L \/50	\/=0	1100	
11/14/2019	#1	775	46	31,473.9	YES	YES	14.00	
11/22/2019	#1	653	46	31,666.5	YES	YES	15.50	
12/4/2019	#1	1,062	46	31,949.9	NO	YES		Drained, restarted, then collected data after 5 min. running
12/12/2019	#1	894	46	32,142.6	YES	YES	22.00	
12/19/2019	#1	837	46	32,313.8	YES	YES	23.00	Drained, restarted at 2pm after collecting water samples
12/24/2019	#1	892	46	32,430.4	YES	YES		Drained, restarted
12/30/2019	#1	NA	47	32,573.4	YES	YES		Drained, restarted
1/4/2020	#1	446	47	32,692.8	YES	YES		Drained, restarted
1/9/2020	#1	NA	46	32,814.4	YES	YES	14.50	Drained, restarted
1/10/2020	#1	NA	NA	NA	YES	NO		Unintentionally left inlet valve open, did not measure water in drum
1/15/2020	#1	NA	46	32,959.5	YES	YES	17.00	Drained, restarted
1/25/2020	#1	834	48	33,200.6	NO	YES	26.00	Drained, restarted, then collected data after 12 min. running
1/30/2020	#1	683	46	33,322.0	YES	YES		Drained, restarted
2/5/2020	#1	NA	46	33,462.4	YES	YES	17.00	Drained, restarted
2/13/2020	#1	NA	NA	33,631.0	NO	YES	15.50	GNO; could not restart generator
2/26/2020	#1	NA	NA	33,653.0	NO	NO		GNO; water below drain port, could not restrart
2/28/2020	#1	903	46	33,674.3	YES	YES	4.00	Drained, restarted
3/5/2020	#1	656	46	33,818.1	YES	NO		Drained, restarted
3/12/2020	#1	NA	48	33,985.1	YES	NO		Unintentionally left inlet valve open
3/25/2020	#1	NA	46	34,297.5	YES	YES	23.50	Drained, restarted
3/31/2020	#1	560	46	34,440.1	YES	YES	9.50	Drained, restarted
4/14/2020	#1	512	46	34,778.8	YES	YES	15.50	Drained, restarted
4/29/2020	#1	NA	46	35,027.0	YES	YES	8.00	Drained, restarted
5/8/2020	#1	NA	46	35,240.6	YES	NO		Dry drum
5/22/2020	#1	431	46	35,576.7	YES	YES	5.50	Drained, restarted
5/28/2020	#1	364	46	35,721.0	YES	NO		Water in drum not measured
6/25/2020	#1	266	45	-	YES	NO		Water in drum below drain port
7/30/2020	#1	NA	NA	_	NO	NO		GNO; water below drain port, could not restrart
8/25/2020	#1	NA	NA	1	NO	NO		GNO; could not restart generator
8/31/2020	#1	NA	NA	1	NO	NO		GNO; could not restart generator
9/17/2020	#1	NA	NA	-	NO	NO		GNO; could not restart generator
9/23/2020	#1	1,506	46	36,781.5	NO	NO		GNO; restarted, then collected readings, dry drum
9/29/2020	#1	NA	NA	-	NO	NO		GNO; restarted, generator shut down < 5 minutes after restart
10/6/2020	#1	409	45	36,946.0	YES	NO		Water in drum below drain port
10/13/2020	#1	1,151	46	37,113.3	YES	NO	2.00	





# Received by OCD: 1/24/2022 2:06:05 PM Energy Inc. - Mudge B 12R SVE - #1 OVM Data

Date	Exhaust
Date	OVM (ppm)
	O 1 (PP)
5/9/2019	2,467
5/24/2019	4,133
5/28/2019	4,776
5/29/2019	2,658
5/30/2019	3,158
5/31/2019	4,736
6/4/2019	3,146
6/12/2019	2,510
6/20/2019	1,970
6/28/2019	4,526
7/11/2019	1,629
7/18/2019	1,503
7/27/2019	1,114
8/9/2019	1,004
8/14/2019	1,691
8/23/2019	4,851
8/28/2019	886
9/5/2019	957
9/12/2019	1,200
9/18/2019	1,437
10/17/2019	822
10/28/2019	912
11/1/2019	963
11/7/2019	823
11/14/2019	775
11/22/2019	653
12/4/2019	1062
12/12/2019	894
12/19/2019	837
12/24/2019	892
1/4/2020	446
1/25/2020	834
1/30/2020	683.0
2/28/2020	903.0
3/5/2020	656.0
3/31/2020	560.0
4/14/2020	512.0
5/22/2020	431.0
5/28/2020	364.0
6/25/2020	266.0
9/23/2020	1506.0
10/6/2020	409.0
10/13/2020	1151.0
10/23/2020	363.0
11/3/2020	320.2
	-

Date	Exhaust
	OVM (ppm)
	(11 /
11/16/2020	412
12/22/2020	425
1/14/2021	1210.0
2/5/2021	-
3/29/2021	185.6
4/14/2021	253.2
5/7/2021	-
6/8/2021	-
7/9/2021	_
9/15/2021	699.8
9/29/2021	185.2
10/11/2021	301.6
11/6/2021	232.6
12/13/2021	530.0
, .0,2021	300.0

# GROUNDWATER

# LABORATORY

**REPORTS** 



#### Mudge B #012R Groundwater Sampling Results Simcoe LLC

Well Name	Sample Date	Depth to	Well Depth	TDS	Conductivity	рН	Benzene	Toluene	Ethylbenzene	Total Xylenes
		Water (ft)	(ft)	(mg/L)	(umhos)		(ppb)	(ppb)	(ppb)	(ppb)
MW #1	12/28/16	43.49	49.90	6,120	4,400	6.86	ND	ND	ND	ND
MW #1	03/15/17	42.85	-	-	4,000	7.15	ND	ND	ND	ND
MW #1	06/30/17	42.25	-	-	4,600	6.93	ND	ND	ND	ND
MW #1	09/20/17	42.60	-	-	3,700	6.81	ND	ND	ND	ND
MW #1	12/20/17	41.90	-	-	2,700	6.87	ND	ND	ND	ND
MW #1	03/26/18	41.84	-	-	4,400	7.10	ND	ND	ND	ND
MW #1	06/28/18	41.84	-	-	3,500	6.80	ND	ND	ND	ND
MW #1	09/26/18	41.93	-	-	2,700	6.96	ND	ND	ND	ND
MW #1	12/19/18	42.07	-	-	3,200	7.48	ND	ND	ND	ND
MW #1	03/02/21	-	-	-	-	-	ND	ND	ND	ND
MW #2	12/28/16	42.59	46.40	7,940	4,200	6.70	320	250	500	5,800
MW #2	03/15/17	41.95	-	-	5,200	6.78	320	13	360	3,700
MW #2	06/30/17	41.42	-	-	5,800	6.78	350	9.3	700	4,600
MW #2	09/20/17	41.69	-	-	4,100	6.73	140	ND	350	400
MW #2	12/20/17	40.98	-	-	4,200	6.74	160	11	190	1,300
MW #2	03/26/18	40.88	-	-	5,000	6.91	140	11	220	780
MW #2	06/28/18	40.83	-	-	4,200	6.91	110	ND	270	620
MW #2	09/26/18	40.89	-	-	3,800	7.00	140	ND	320	620
MW #2	12/19/18	40.98	-	-	3,900	6.71	96	3.6	98	280
MW #2	03/29/19	40.94	-	-	3,100	6.93	46	ND	28	130
MW #2	06/28/19	40.49	_	-	2,200	7.21	26	ND	7.4	13
MW #2	09/18/19	40.50	_	-	2,100	6.90	3.7	ND	5.6	15
MW #2	12/19/19	40.56	_	-	3,100	7.11	7.7	ND	4.4	5.3
MW #2	03/31/20	40.86	_	_	3,500	7.38	1.8	ND	1.2	2.3
MW #2	06/08/20	40.85	_	_	2,600	7.24	6.6	1.8	ND	2.3
MW #2	09/17/20	41.17	-	-	1,600	7.09	ND	ND	ND	ND
MW #2	03/02/21	-	-	_	-	-	ND	ND	ND	ND
MW #2	08/20/21	41.85	-	-	8,730	7.94	3.4	ND	ND	ND
MW #2	12/08/21	42.16	_	-	8,570	7.84	1.7	ND	ND	ND
MW #3	12/28/16	42.15	44.00	8,100	4,400	6.72	15	ND	ND	970
MW #3	03/15/17	41.83	-	-	4,300	7.08	9.0	ND	140	730
MW #3	06/30/17	41.43	-	-	4,200	6.71	5.6	ND	120	ND
MW #3	09/20/17	41.24	-	-	3,300	6.76	7.6	ND	87	15
MW #3	12/20/17	41.16	-	-	3,200	6.82	9.7	ND	39	7.4
MW #3	03/26/18	41.16	-	-	3,900	6.99	7.7	ND	7.3	3.2
MW #3	06/28/18	41.18	-	-	3,400	6.89	9.1	ND	1.8	4.7
MW #3	09/26/18	41.20	-	_	2,900	7.03	13	ND	ND	ND
MW #3	12/19/18	41.37	-	_	3,700	7.14	15	ND	ND	ND
MW #3	03/29/19	41.39	-	_	2,700	7.22	7.5	ND	ND	ND
MW #3	06/28/19	40.99	-	_	2,000	7.30	9.4	ND	ND	5.2
MW #3	09/18/19	40.78	-	_	1,800	6.89	13	ND	ND	ND
MW #3	12/19/19	40.82	-	-	3,400	7.76	5.2	ND	ND	ND
MW #3	03/31/20	41.06	_	_	3,100	7.59	5.0	2.1	1.2	7.4
MW #3	06/08/20	41.20	-	_	2,400	7.41	3.1	1.7	ND	3.9
MW #3	09/17/20	41.45	-	_	1,600	7.35	1.5	ND	ND	ND
MW #3	12/16/20	41.59	-	_	3,900	7.54	1.7	ND	ND	ND
MW #3	03/03/21	-	-	_	-	-	ND	ND	ND	ND
MW #3	06/10/21	-	-	_	_	-	1.3	ND	ND	2.4
MW #3	08/20/21	41.95	-	_	8,940	7.84	ND	ND	ND	ND
MW #3	12/08/21	42.10	-	_	8,520	7.71	1.2	ND	ND	ND
			MWOCC G	roundw	ater Standard	6-9	5	1000	700	620



#### Mudge B #012R Groundwater Sampling Results Simcoe LLC

Well Name	Sample	Fluoride	Chloride	Sulfate	TDS	Nitrate	Iron	Manganese	Naphthalene
well Name	Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW #1	12/28/16	ND	93	4,400	6,120	ND	-	-	ND
MW #2	12/28/16	ND	240	3,400	7,940	ND	-	-	21
MW #2	09/18/19	-	-	-	7,680	-	0.36	1.8	ND
MW #3	12/28/16	ND	150	3,800	8,100	ND	-	-	ND
NMWQCC Groundwat	er Standard	1.6	250.0	600.0	1000	10	1.0	0.2	0.03

#### **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



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

March 11, 2021

Steve Moskal SIMCOE 1100 Main St. Durango, CO 81301

TEL: (505) 330-9179

FAX

RE: Mudge B 12 R OrderNo.: 2103243

#### Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/4/2021 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 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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/11/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-1

 Project:
 Mudge B 12 R
 Collection Date: 3/2/2021 10:35:00 AM

 Lab ID:
 2103243-001
 Matrix: GROUNDWA
 Received Date: 3/4/2021 7:50:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
Benzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Toluene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Ethylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Naphthalene	ND	2.0	μg/L	1	3/9/2021 10:04:21 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	3/9/2021 10:04:21 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	3/9/2021 10:04:21 PM
Acetone	ND	10	μg/L	1	3/9/2021 10:04:21 PM
Bromobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Bromodichloromethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Bromoform	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Bromomethane	ND	3.0	μg/L	1	3/9/2021 10:04:21 PM
2-Butanone	ND	10	μg/L	1	3/9/2021 10:04:21 PM
Carbon disulfide	ND	10	μg/L	1	3/9/2021 10:04:21 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Chlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Chloroethane	ND	2.0	μg/L	1	3/9/2021 10:04:21 PM
Chloroform	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Chloromethane	ND	3.0	μg/L	1	3/9/2021 10:04:21 PM
2-Chlorotoluene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
4-Chlorotoluene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
cis-1,2-DCE	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	3/9/2021 10:04:21 PM
Dibromochloromethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Dibromomethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	3/9/2021 10:04:21 PM

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

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 Quanitative 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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Date Reported: 3/11/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-1

 Project:
 Mudge B 12 R
 Collection Date: 3/2/2021 10:35:00 AM

 Lab ID:
 2103243-001
 Matrix: GROUNDWA
 Received Date: 3/4/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
1,1-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
2-Hexanone	ND	10	μg/L	1	3/9/2021 10:04:21 PM
Isopropylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	3/9/2021 10:04:21 PM
Methylene Chloride	ND	3.0	μg/L	1	3/9/2021 10:04:21 PM
n-Butylbenzene	ND	3.0	μg/L	1	3/9/2021 10:04:21 PM
n-Propylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
sec-Butylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Styrene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
tert-Butylbenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	3/9/2021 10:04:21 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
trans-1,2-DCE	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	3/9/2021 10:04:21 PM
Vinyl chloride	ND	1.0	μg/L	1	3/9/2021 10:04:21 PM
Xylenes, Total	ND	1.5	μg/L	1	3/9/2021 10:04:21 PM
Surr: 1,2-Dichloroethane-d4	89.7	70-130	%Rec	1	3/9/2021 10:04:21 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	3/9/2021 10:04:21 PM
Surr: Dibromofluoromethane	103	70-130	%Rec	1	3/9/2021 10:04:21 PM
Surr: Toluene-d8	103	70-130	%Rec	1	3/9/2021 10:04:21 PM

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

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 Quanitative 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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Date Reported: 3/11/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-2

 Project:
 Mudge B 12 R
 Collection Date: 3/2/2021 11:15:00 AM

 Lab ID:
 2103243-002
 Matrix: GROUNDWA
 Received Date: 3/4/2021 7:50:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
Benzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Toluene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Ethylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Naphthalene	ND	2.0	μg/L	1	3/9/2021 10:33:05 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	3/9/2021 10:33:05 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	3/9/2021 10:33:05 PM
Acetone	ND	10	μg/L	1	3/9/2021 10:33:05 PM
Bromobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Bromodichloromethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Bromoform	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Bromomethane	ND	3.0	μg/L	1	3/9/2021 10:33:05 PM
2-Butanone	ND	10	μg/L	1	3/9/2021 10:33:05 PM
Carbon disulfide	ND	10	μg/L	1	3/9/2021 10:33:05 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Chlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Chloroethane	ND	2.0	μg/L	1	3/9/2021 10:33:05 PM
Chloroform	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Chloromethane	ND	3.0	μg/L	1	3/9/2021 10:33:05 PM
2-Chlorotoluene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
4-Chlorotoluene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
cis-1,2-DCE	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	3/9/2021 10:33:05 PM
Dibromochloromethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Dibromomethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	3/9/2021 10:33:05 PM

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

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 Quanitative 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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Date Reported: 3/11/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-2

 Project:
 Mudge B 12 R
 Collection Date: 3/2/2021 11:15:00 AM

 Lab ID:
 2103243-002
 Matrix: GROUNDWA
 Received Date: 3/4/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
1,1-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
2-Hexanone	ND	10	μg/L	1	3/9/2021 10:33:05 PM
Isopropylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	3/9/2021 10:33:05 PM
Methylene Chloride	ND	3.0	μg/L	1	3/9/2021 10:33:05 PM
n-Butylbenzene	ND	3.0	μg/L	1	3/9/2021 10:33:05 PM
n-Propylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
sec-Butylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Styrene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
tert-Butylbenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	3/9/2021 10:33:05 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
trans-1,2-DCE	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	3/9/2021 10:33:05 PM
Vinyl chloride	ND	1.0	μg/L	1	3/9/2021 10:33:05 PM
Xylenes, Total	ND	1.5	μg/L	1	3/9/2021 10:33:05 PM
Surr: 1,2-Dichloroethane-d4	90.9	70-130	%Rec	1	3/9/2021 10:33:05 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	3/9/2021 10:33:05 PM
Surr: Dibromofluoromethane	90.2	70-130	%Rec	1	3/9/2021 10:33:05 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	3/9/2021 10:33:05 PM

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

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 Quanitative 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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Date Reported: 3/11/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-3

 Project:
 Mudge B 12 R
 Collection Date: 3/3/2021 9:00:00 AM

 Lab ID:
 2103243-003
 Matrix: GROUNDWA
 Received Date: 3/4/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
Benzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Toluene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Ethylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Naphthalene	ND	2.0	μg/L	1	3/9/2021 11:01:43 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	3/9/2021 11:01:43 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	3/9/2021 11:01:43 PM
Acetone	ND	10	μg/L	1	3/9/2021 11:01:43 PM
Bromobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Bromodichloromethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Bromoform	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Bromomethane	ND	3.0	μg/L	1	3/9/2021 11:01:43 PM
2-Butanone	ND	10	μg/L	1	3/9/2021 11:01:43 PM
Carbon disulfide	ND	10	μg/L	1	3/9/2021 11:01:43 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Chlorobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Chloroethane	ND	2.0	μg/L	1	3/9/2021 11:01:43 PM
Chloroform	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Chloromethane	ND	3.0	μg/L	1	3/9/2021 11:01:43 PM
2-Chlorotoluene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
4-Chlorotoluene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
cis-1,2-DCE	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	3/9/2021 11:01:43 PM
Dibromochloromethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Dibromomethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	3/9/2021 11:01:43 PM

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

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 Quanitative 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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Date Reported: 3/11/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-3

 Project:
 Mudge B 12 R
 Collection Date: 3/3/2021 9:00:00 AM

 Lab ID:
 2103243-003
 Matrix: GROUNDWA
 Received Date: 3/4/2021 7:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
1,1-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
2-Hexanone	ND	10	μg/L	1	3/9/2021 11:01:43 PM
Isopropylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	3/9/2021 11:01:43 PM
Methylene Chloride	ND	3.0	μg/L	1	3/9/2021 11:01:43 PM
n-Butylbenzene	ND	3.0	μg/L	1	3/9/2021 11:01:43 PM
n-Propylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
sec-Butylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Styrene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
tert-Butylbenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	3/9/2021 11:01:43 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
trans-1,2-DCE	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	3/9/2021 11:01:43 PM
Vinyl chloride	ND	1.0	μg/L	1	3/9/2021 11:01:43 PM
Xylenes, Total	ND	1.5	μg/L	1	3/9/2021 11:01:43 PM
Surr: 1,2-Dichloroethane-d4	84.2	70-130	%Rec	1	3/9/2021 11:01:43 PM
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	3/9/2021 11:01:43 PM
Surr: Dibromofluoromethane	95.5	70-130	%Rec	1	3/9/2021 11:01:43 PM
Surr: Toluene-d8	92.2	70-130	%Rec	1	3/9/2021 11:01:43 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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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### Hall Environmental Analysis Laboratory, Inc.

2103243 11-Mar-21

WO#:

Client: SIMCOE
Project: Mudge B 12 R

Sample ID: 100ng lcs	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	n ID: <b>A7</b>	5823	F	RunNo: 7	5823				
Prep Date:	Analysis D	ate: 3/	9/2021	S	SeqNo: 2	682704	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	70	130			
Toluene	19	1.0	20.00	0	97.3	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	88.4	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	80.7	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	8.3		10.00		83.3	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: mb1	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: <b>A7</b>	5823	F	RunNo: 7	5823				
Prep Date:	Analysis Da	ate: 3/	9/2021	8	SeqNo: 2	682705	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								

ND	1.0
ND	1.0
ND	2.0
ND	4.0
ND	4.0
ND	10
ND	1.0
ND	1.0
ND	1.0
ND	3.0
ND	10
ND	10
ND	1.0
ND	1.0
ND	2.0
ND	1.0
ND	3.0
ND	1.0
	ND N

#### 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 Quanitative 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 7 of 9

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2103243** *11-Mar-21* 

Client: SIMCOE
Project: Mudge B 12 R

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

	-									
Client ID: PBW		n ID: <b>A7</b>			tunNo: <b>75</b>					
Prep Date:	Analysis D	oate: 3/	9/2021	S	SeqNo: 26	682705	Units: µg/L			
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 Quanitative Limit

- 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, Inc.

2103243 11-Mar-21

WO#:

Client: SIMCOE
Project: Mudge B 12 R

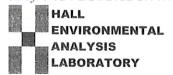
Sample ID: mb1	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: <b>A7</b>	5823	F	RunNo: <b>7</b>	5823				
Prep Date:	Analysis D	ate: 3/	9/2021	S	SeqNo: 2	682705	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.3	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	10		10.00		101	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 Quanitative Limit

- 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 9 of 9



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	r: 210	3243		RcptNo	o: 1
Received By:	Juan Rojas	3/4/2021 7:50:00 AM			Heaving		
Completed By:	Desiree Dominguez	3/4/2021 8:58:02 AM			Juan Engl		
Reviewed By:	ENH				173		
Neviewed by.	CNM	3/4/21					
Chain of Cus	tody						
19 200 1000 1000	ustody complete?		Yes	<b>V</b>	No 🗌	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
	npt made to cool the samples	?	Yes	<b>V</b>	No 🗌	NA 🗌	
4. Were all samp	oles received at a temperatur	e of >0° C to 6.0°C	Yes	<b>✓</b>	No 🗌	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes	<b>✓</b>	No 🗌		
6. Sufficient sam	ple volume for indicated test	(s)?	Yes	<b>V</b>	No 🗌		
7. Are samples (	except VOA and ONG) prope	rly preserved?	Yes	<b>V</b>	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗸	NA $\square$	
9. Received at le	east 1 vial with headspace <1	/4" for AQ VOA?	Yes	<b>V</b>	No 🗌	NA 🗌	
10. Were any san	nple containers received brok	en?	Yes		No 🗸	# -6	
						# of preserved bottles checked	
	ork match bottle labels? ancies on chain of custody)		Yes	<b>V</b>	No 📙	for pH:	or >12 unless noted)
	correctly identified on Chain of	f Custody?	Yes	<b>V</b>	No 🗌	Adjusted?	
13. Is it clear what	t analyses were requested?		Yes	<b>V</b>	No 🗌		
	ng times able to be met?		Yes	<b>V</b>	No 🗌	Checked by:	DAD 3/4/2/
	ustomer for authorization.)						
Special Handl	ing (if applicable)						
15. Was client no	tified of all discrepancies with	n this order?	Yes		No 🗌	NA 🗹	
Person	Notified:	Date:		CONTRACTOR SERVICE	CONTRACTOR AND ADDRESS OF THE PROPERTY OF THE		
By Who	om:	Via:	eM	ail [	Phone Fax	In Person	
Regardi	Parameter for recording the property of the contract of the co						
	nstructions:						
16. Additional rea	marks:						
17. Cooler Infor					1	ī	
Cooler No		Seal Intact Seal No es	Seal D	ate	Signed By		
1	2.1 G000 T	C-3					

	AL AR	UCD	): 1/2	24/2	022	2:06	:05	<i>PM</i>														<del>Page 23 (</del>
	HALL ENVIKONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Anal		S '*(	1180 DG (	(1.40 728 10 SON	10 of 5,000	etho y 83 ir, <i>h</i> (AO)	EDB (M PAHs bg Cl, F, B 8260 (V 8270 ( <i>S</i> Total Co	X	X	X							
			4901	Tel. 5		(0	90190049		01-2000/622311800			`08:H9T ∍9 1808									Remarks:	
						(1	208	s,e	TME	138	် TM	N3T8									Ren	, 9
	ų		2						S C	2	3-6.2 = 2, 10	HEAL No.		700-	£00-						Salar Time	Date Time
ime:	□ Rush		BIR	1 10 		Jer:	-	Mostra	11 17 17 17 17 17 17 17 17 17 17 17 17 1		ncluding CF):	Preservative Type	JCe/HO		<b>\</b>						Via:	Nai:
Turn-Around Time:		Project Name:	Muchal	Project #: 0	130	Project Manager:		Stelle	Sampler:	olers:	Cooler Temp(including CF):	Container Type and #		<b>→</b>	40 mlxa						Received by:	Received by:
Chain-of-Custody Record	7	KAN Frengy	1 Mein 8t, Sheld	81301 B	philo	DSKAVEREN	00	☐ Level 4 (Full Validation)	Az Compliance Other			Sample Name	MWI	MWZ	mw3						led by:	ed by: E
-of-Cu	100 L	1 0	S: Mag	DI MCLOWY)	33	email or Fax#: Smu &			□ Az Col			Matrix		change	7						Relinquished by:	Relinquished by:
Chain	t: Simoo	Bill	Mailing Address:		Phone #: 505	or Fax#:	QA/QC Package:	Standard	Accreditation:	EDD (Type)		Time	2 lo 35	J MIS	9				2		Time:	
	Client:		Mailir		Phone	email	QA/Q	□ Sta	Accre			Date	3/1/2	322	3/3/21	-					Date:	Date:



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

June 22, 2021

Steve Moskal SIMCOE 1100 Main St. Durango, CO 81301

TEL: (505) 330-9179

FAX:

RE: Mudge B 12R OrderNo.: 2106654

#### Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/11/2021 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 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,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-3

 Project:
 Mudge B 12R
 Collection Date: 6/10/2021 12:30:00 PM

 Lab ID:
 2106654-001
 Matrix: GROUNDWA
 Received Date: 6/11/2021 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
Benzene	1.3	1.0	μg/L	1	6/18/2021 4:43:53 PM
Toluene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Ethylbenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2,4-Trimethylbenzene	5.0	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Naphthalene	ND	2.0	μg/L	1	6/18/2021 4:43:53 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	6/18/2021 4:43:53 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	6/18/2021 4:43:53 PM
Acetone	10	10	μg/L	1	6/18/2021 4:43:53 PM
Bromobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Bromodichloromethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Bromoform	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Bromomethane	ND	3.0	μg/L	1	6/18/2021 4:43:53 PM
2-Butanone	ND	10	μg/L	1	6/18/2021 4:43:53 PM
Carbon disulfide	ND	10	μg/L	1	6/18/2021 4:43:53 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Chlorobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Chloroethane	ND	2.0	μg/L	1	6/18/2021 4:43:53 PM
Chloroform	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Chloromethane	ND	3.0	μg/L	1	6/18/2021 4:43:53 PM
2-Chlorotoluene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
4-Chlorotoluene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
cis-1,2-DCE	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/18/2021 4:43:53 PM
Dibromochloromethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Dibromomethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/18/2021 4:43:53 PM

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

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 Quanitative 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

Date Reported: 6/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW-3

 Project:
 Mudge B 12R
 Collection Date: 6/10/2021 12:30:00 PM

 Lab ID:
 2106654-001
 Matrix: GROUNDWA
 Received Date: 6/11/2021 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JMR</b>
1,1-Dichloropropene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
2-Hexanone	ND	10	μg/L	1	6/18/2021 4:43:53 PM
Isopropylbenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/18/2021 4:43:53 PM
Methylene Chloride	ND	3.0	μg/L	1	6/18/2021 4:43:53 PM
n-Butylbenzene	ND	3.0	μg/L	1	6/18/2021 4:43:53 PM
n-Propylbenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
sec-Butylbenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Styrene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
tert-Butylbenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/18/2021 4:43:53 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
trans-1,2-DCE	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/18/2021 4:43:53 PM
Vinyl chloride	ND	1.0	μg/L	1	6/18/2021 4:43:53 PM
Xylenes, Total	2.4	1.5	μg/L	1	6/18/2021 4:43:53 PM
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	6/18/2021 4:43:53 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/18/2021 4:43:53 PM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	6/18/2021 4:43:53 PM
Surr: Toluene-d8	103	70-130	%Rec	1	6/18/2021 4:43:53 PM

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

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 Quanitative 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

## Hall Environmental Analysis Laboratory, Inc.

ND

1.0

WO#: **2106654 22-Jun-21** 

Client: SIMCOE
Project: Mudge B 12R

Sample ID: 100ng Ics	SampT	ype: <b>LC</b>	s	Tes						
Client ID: LCSW	Batch	n ID: <b>A7</b>	9201	F	RunNo: <b>7</b>	9201				
Prep Date:	Analysis D	ate: <b>6/</b>	18/2021	S	SeqNo: 2	780225	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
Toluene	21	1.0	20.00	0	106	70	130			
Chlorobenzene	20	1.0	20.00	0	97.6	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	118	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	12		10.00		123	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.8	70	130			
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES			
Client ID: PBW	Batch	n ID: <b>A7</b>	9201	F	RunNo: 7	9201					
Prep Date:	Analysis D	ate: 6/	18/2021	8	SeqNo: 2	780227	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	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:

Toluene

- 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 Quanitative Limit

- 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 3 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2106654 22-Jun-21** 

Client: SIMCOE
Project: Mudge B 12R

Sample ID: mb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Campie ib. iiib	Gampi	ypc. IIIL	<b></b>	restoode. El A method 02005. VOEATILEO						
Client ID: PBW	Batch	n ID: <b>A7</b>	9201	R	RunNo: <b>7</b> 9	9201				
Prep Date:	Analysis D	ate: 6/	18/2021	S	SeqNo: 27	780227	Units: µg/L			
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 Quanitative 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 4 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2106654 22-Jun-21** 

Client: SIMCOE
Project: Mudge B 12R

Sample ID: mb	•	ype: ME			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	n ID: <b>A7</b>	9201	F	RunNo: <b>7</b> 9	9201					
Prep Date:	Analysis D	Date: 6/	18/2021	5	SeqNo: 2	780227	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	11		10.00		107	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130				
Surr: Dibromofluoromethane	10		10.00		101	70	130				
Surr: Toluene-d8	10		10.00		102	70	130				

Sample ID: <b>2106654-001ams</b>	SampT	SampType: MS TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-3	Batcl	n ID: <b>A7</b>	9201	F	RunNo: 7	9201				
Prep Date:	Analysis D	Date: 6/	18/2021	SeqNo: <b>2780230</b> U			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	25	1.0	20.00	1.275	118	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	116	70	130			
Trichloroethene (TCE)	23	1.0	20.00	0	115	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.9	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

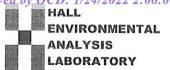
Sample ID: 2106654-001amsd	ole ID: 2106654-001amsd SampType: MSD TestCode: EPA Method 8260B: VOLATILES									
Client ID: MW-3	Batch	n ID: <b>A7</b>	9201	F	RunNo: <b>7</b> 9	9201				
Prep Date:	Analysis Date: 6/18/2021			8	SeqNo: 2	780231	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	1.275	103	70	130	12.9	20	
Toluene	21	1.0	20.00	0	105	70	130	5.42	20	
Chlorobenzene	20	1.0	20.00	0	98.7	70	130	5.36	20	
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130	12.7	20	
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130	10.5	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.7		10.00		97.2	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	10		10.00		102	70	130	0	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 Quanitative 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 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

## Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com Client Name: SIMCOE Work Order Number: 2106654 RcptNo: 1 Received By: Juan Rojas 6/11/2021 7:30:00 AM Completed By: **Desiree Dominguez** 6/11/2021 8:28:41 AM Reviewed By: S&C 6/11/21 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° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 8. Was preservative added to bottles? No 🗸 Yes 🗌 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 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: KPG 6/11/21 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.)

#### Special Handling (if applicable)

15. Was client notified of all c	liscrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified:	A programme to the contraction of the contraction o	Date:	ALTO A STATE OF THE PROPERTY O	
By Whom:	The second control of the second seco	Via: eMail	Phone Fax	In Person
Regarding:		ATTENDED AT COUNTY OF THE PARKET.	E-SECTION SET AND CONTROL SET AND	THE OTHER PROPERTY OF THE PROP
Client Instructions:		TEACHTE STAND TO SELECT THE STANDARD ST	CONTROL CONTRO	AND DESCRIPTION OF SECURIOR SE

Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			
2	0.4	Good	Yes			

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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

September 01, 2021

Steve Moskal SIMCOE 1100 Main St. Durango, CO 81301

TEL: (505) 330-9179 FAX

RE: MUDGE B 12R OrderNo.: 2108C74

#### Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 2 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 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order **2108C74** 

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/1/2021

CLIENT: SIMCOE Client Sample ID: MW #2

 Project:
 MUDGE B 12R
 Collection Date: 8/20/2021 1:20:00 PM

 Lab ID:
 2108C74-001
 Matrix: AQUEOUS
 Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
Benzene	3.4	1.0	μg/L	1	8/28/2021 12:26:00 PM
Toluene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Ethylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Naphthalene	ND	2.0	μg/L	1	8/28/2021 12:26:00 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	8/28/2021 12:26:00 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	8/28/2021 12:26:00 PM
Acetone	ND	10	μg/L	1	8/28/2021 12:26:00 PM
Bromobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Bromodichloromethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Bromoform	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Bromomethane	ND	3.0	μg/L	1	8/28/2021 12:26:00 PM
2-Butanone	ND	10	μg/L	1	8/28/2021 12:26:00 PM
Carbon disulfide	ND	10	μg/L	1	8/28/2021 12:26:00 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Chlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Chloroethane	ND	2.0	μg/L	1	8/28/2021 12:26:00 PM
Chloroform	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Chloromethane	ND	3.0	μg/L	1	8/28/2021 12:26:00 PM
2-Chlorotoluene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
4-Chlorotoluene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
cis-1,2-DCE	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	8/28/2021 12:26:00 PM
Dibromochloromethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Dibromomethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	8/28/2021 12:26:00 PM

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

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 Quanitative 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 9

#### **Analytical Report**

Lab Order **2108C74** 

#### Date Reported: 9/1/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW #2

 Project:
 MUDGE B 12R
 Collection Date: 8/20/2021 1:20:00 PM

 Lab ID:
 2108C74-001
 Matrix: AQUEOUS
 Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,1-Dichloropropene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
2-Hexanone	ND	10	μg/L	1	8/28/2021 12:26:00 PM
Isopropylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	8/28/2021 12:26:00 PM
Methylene Chloride	ND	3.0	μg/L	1	8/28/2021 12:26:00 PM
n-Butylbenzene	ND	3.0	μg/L	1	8/28/2021 12:26:00 PM
n-Propylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
sec-Butylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Styrene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
tert-Butylbenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	8/28/2021 12:26:00 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
trans-1,2-DCE	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	8/28/2021 12:26:00 PM
Vinyl chloride	ND	1.0	μg/L	1	8/28/2021 12:26:00 PM
Xylenes, Total	ND	1.5	μg/L	1	8/28/2021 12:26:00 PM
Surr: 1,2-Dichloroethane-d4	83.3	70-130	%Rec	1	8/28/2021 12:26:00 PM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	8/28/2021 12:26:00 PM
Surr: Dibromofluoromethane	81.8	70-130	%Rec	1	8/28/2021 12:26:00 PM
Surr: Toluene-d8	96.9	70-130	%Rec	1	8/28/2021 12:26:00 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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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#### **Analytical Report**

Lab Order 2108C74

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/1/2021

CLIENT: SIMCOE Client Sample ID: MW #3

 Project:
 MUDGE B 12R
 Collection Date: 8/20/2021 1:03:00 PM

 Lab ID:
 2108C74-002
 Matrix: AQUEOUS
 Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
Benzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Toluene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Ethylbenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2,4-Trimethylbenzene	13	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Naphthalene	ND	2.0	μg/L	1	8/28/2021 12:49:00 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	8/28/2021 12:49:00 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	8/28/2021 12:49:00 PM
Acetone	ND	10	μg/L	1	8/28/2021 12:49:00 PM
Bromobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Bromodichloromethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Bromoform	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Bromomethane	ND	3.0	μg/L	1	8/28/2021 12:49:00 PM
2-Butanone	ND	10	μg/L	1	8/28/2021 12:49:00 PM
Carbon disulfide	ND	10	μg/L	1	8/28/2021 12:49:00 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Chlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Chloroethane	ND	2.0	μg/L	1	8/28/2021 12:49:00 PM
Chloroform	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Chloromethane	ND	3.0	μg/L	1	8/28/2021 12:49:00 PM
2-Chlorotoluene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
4-Chlorotoluene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
cis-1,2-DCE	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	8/28/2021 12:49:00 PM
Dibromochloromethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Dibromomethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	8/28/2021 12:49:00 PM

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

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 Quanitative 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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# Analytical Report Lab Order 2108C74

Date Reported: 9/1/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW #3

 Project:
 MUDGE B 12R
 Collection Date: 8/20/2021 1:03:00 PM

 Lab ID:
 2108C74-002
 Matrix: AQUEOUS
 Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,1-Dichloropropene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
2-Hexanone	ND	10	μg/L	1	8/28/2021 12:49:00 PM
Isopropylbenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	8/28/2021 12:49:00 PM
Methylene Chloride	ND	3.0	μg/L	1	8/28/2021 12:49:00 PM
n-Butylbenzene	ND	3.0	μg/L	1	8/28/2021 12:49:00 PM
n-Propylbenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
sec-Butylbenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Styrene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
tert-Butylbenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	8/28/2021 12:49:00 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
trans-1,2-DCE	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	8/28/2021 12:49:00 PM
Vinyl chloride	ND	1.0	μg/L	1	8/28/2021 12:49:00 PM
Xylenes, Total	ND	1.5	μg/L	1	8/28/2021 12:49:00 PM
Surr: 1,2-Dichloroethane-d4	84.0	70-130	%Rec	1	8/28/2021 12:49:00 PM
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	8/28/2021 12:49:00 PM
Surr: Dibromofluoromethane	84.0	70-130	%Rec	1	8/28/2021 12:49:00 PM
Surr: Toluene-d8	96.0	70-130	%Rec	1	8/28/2021 12:49:00 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C74** 

01-Sep-21

Client: SIMCOE
Project: MUDGE B 12R

Sample ID: 100ng 8260 lcs	SampT	ype: <b>LC</b>	s	Test	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	n ID: R8	0854	R						
Prep Date:	Analysis D	ate: 8/	27/2021	S	SeqNo: 2	853387	Units: %Red	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: R8	0854	F	RunNo: 8	0854				
Prep Date:	Analysis D	ate: 8/	27/2021	8	SeqNo: 2	853388	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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			

SampT	ype: <b>LC</b>	S TestCode: EPA Method 8260B: VOLATILES								
Batch	1D: <b>R8</b>	0878	F	RunNo: 8	0878					
Analysis D	ate: <b>8/</b>	28/2021	9	SeqNo: 2	854004	Units: µg/L				
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
20	1.0	20.00	0	98.2	70	130				
21	1.0	20.00	0	104	70	130				
20	1.0	20.00	0	99.6	70	130				
18	1.0	20.00	0	91.3	70	130				
18	1.0	20.00	0	90.4	70	130				
8.3		10.00		83.1	70	130				
10		10.00		101	70	130				
8.2		10.00		81.9	70	130				
10		10.00		99.6	70	130				
	Batch Analysis D Result 20 21 20 18 18 8.3 10 8.2	Batch ID: R8 Analysis Date: 8/  Result PQL  20 1.0 21 1.0 20 1.0 18 1.0 18 1.0 8.3 10 8.2	Result         PQL         SPK value           20         1.0         20.00           21         1.0         20.00           20         1.0         20.00           18         1.0         20.00           18         1.0         20.00           8.3         10.00           10         10.00           8.2         10.00	Batch ID: R80878       Result PQL SPK value SPK Ref Val       20     1.0     20.00     0       21     1.0     20.00     0       20     1.0     20.00     0       20     1.0     20.00     0       18     1.0     20.00     0       18     1.0     20.00     0       8.3     10.00       10     10.00     10.00       8.2     10.00     10.00	Batch ID: R80878       RunNo: 8         Analysis Date: 8/28/2021       SeqNo: 2         Result       PQL       SPK value       SPK Ref Val       %REC         20       1.0       20.00       0       98.2         21       1.0       20.00       0       104         20       1.0       20.00       0       99.6         18       1.0       20.00       0       91.3         18       1.0       20.00       0       90.4         8.3       10.00       83.1         10       10.00       101         8.2       10.00       81.9	Batch ID: R80878       RunNo: 80878         Analysis Date: 8/28/2021       SeqNo: 2854004         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         20       1.0       20.00       0       98.2       70         21       1.0       20.00       0       104       70         20       1.0       20.00       0       99.6       70         18       1.0       20.00       0       91.3       70         18       1.0       20.00       0       90.4       70         8.3       10.00       83.1       70         10       10.00       101       70         8.2       10.00       81.9       70	Batch ID: R80878       RunNo: 80878         Analysis Date: 8/28/2021       SeqNo: 2854004       Units: μg/L         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         20       1.0       20.00       0       98.2       70       130         21       1.0       20.00       0       99.6       70       130         20       1.0       20.00       0       91.3       70       130         18       1.0       20.00       0       90.4       70       130         8.3       1.0       20.00       83.1       70       130         8.3       10.00       83.1       70       130         8.2       10.00       81.9       70       130	Batch ID: R8∪878       RunNo: 80878         Analysis Date: 8/28/2021       SeqNo: 2854004       Units: μg/L         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         20       1.0       20.00       0       98.2       70       130         21       1.0       20.00       0       104       70       130         20       1.0       20.00       0       99.6       70       130         18       1.0       20.00       0       91.3       70       130         18       1.0       20.00       0       90.4       70       130         8.3       10.00       83.1       70       130         10       10.00       81.9       70       130         8.2       10.00       81.9       70       130	Batch ID: R80878       RunNo: 80878         Analysis Date: 8/28/2021       SeqNo: 2854004       Units: μg/L         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         20       1.0       20.00       0       98.2       70       130<	

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		•
Client ID: PBW	Batch	ID: <b>R8</b>	0878	F	RunNo: 8	0878				
Prep Date:	Analysis D	ate: 8/	28/2021	8	SeqNo: 2	854005	Units: µg/L			
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								

#### 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 Quanitative Limit

- 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, Inc.

WO#: **2108C74** *01-Sep-21* 

**Client:** SIMCOE

**Project:** MUDGE B 12R

Sample ID: mb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Campic IB. IIIB	Gampi	ypc. IVIL	<b></b>	1030	COUC. LI	Ameniou	OZOOB. VOLATILLO				
Client ID: PBW	Batch	n ID: <b>R8</b>	0878	R	RunNo: <b>80</b>	<b>7878</b>					
Prep Date:	Analysis D	ate: <b>8/</b> 2	28/2021	S	SeqNo: 28	354005	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
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									
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									

#### 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 Quanitative 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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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C74** 

01-Sep-21

Client: SIMCOE

Project: MUDGE B 12R

Sample ID: mb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW Batch ID: R80878 RunNo: 80878

Batch	1D: <b>R8</b>	0878	F	RunNo: 80	0878				
Analysis D	ate: 8/	28/2021	8	SeqNo: 28	854005	Units: µg/L			
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	10								
ND	3.0								
ND	3.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	2.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	1.0								
ND	2.0								
ND	1.0								
ND	1.5								
8.4		10.00		83.8	70	130			
9.9		10.00		99.0	70	130			
8.4		10.00		83.9	70	130			
9.8		10.00		97.8	70	130			
	Analysis D Result ND	Analysis Date:         8/           Result         PQL           ND         10           ND         3.0           ND         1.0           ND         <	ND 10 ND 3.0 ND 3.0 ND 1.0 ND	Result         PQL         SPK value         SPK Ref Value           ND         10         ND         4.0           ND         1.0         ND         1.0           ND         1.0	Result         PQL         SPK value         SPK Ref Val         %REC           ND         10           ND         3.0           ND         1.0           ND         1.	Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit           ND         10	Result         PQL         SPK value         SPK Ref ∨al         %REC         LowLimit         High Limit           ND         10         SPK value         SPK Ref ∨al         %REC         LowLimit         High Limit           ND         3.0         SPK value         SPK Ref ∨al         %REC         LowLimit         High Limit           ND         3.0         SPK value         SPK Ref ∨al         %REC         LowLimit         High Limit           ND         3.0         SPK value         SPK Ref ∨al         %REC         LowLimit         High Limit           ND         3.0         SPK value         SPK Ref ∨al         SPK value         SPK value </td <td>Result         SeqNo: 2854005         Units: µg/L           Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD           ND         10        </td> <td>Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           ND         1.0        </td>	Result         SeqNo: 2854005         Units: µg/L           Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD           ND         10	Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           ND         1.0

Sample ID: 100ng lcs2	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	n ID: <b>B8</b>	0878	F	RunNo: 8	0878				
Prep Date:	Analysis D	oate: 8/	28/2021	9	SeqNo: 2	855673	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.3		10.00		83.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	8.3		10.00		83.1	70	130			
Surr: Toluene-d8	9.7		10.00		97.2	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 Quanitative Limit

- 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, Inc.

2108C74 01-Sep-21

WO#:

**Client: SIMCOE** 

**Project:** MUDGE B 12R

Sample ID: mb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW	Batcl	Batch ID: <b>R80878</b>			RunNo: 80	0878				
Prep Date:	Analysis D	Date: <b>8/</b>	29/2021	S	SeqNo: 2	855674	Units: µg/L			
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								
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								

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

Page 8 of 9

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C74** 

01-Sep-21

Client: SIMCOE

**Project:** MUDGE B 12R

Commis ID: mb2	0	\$45	21.14	<b>T</b>	10 a day <b>5</b>	DA Matha!	00000- 1/01	ATU EC		
Sample ID: mb2		ype: ME					8260B: VOL	AIILES		
Client ID: PBW	Batcl	n ID: <b>R8</b>	0878	F	RunNo: 80	0878				
Prep Date:	Analysis D	Date: 8/	29/2021	\$	SeqNo: 2	855674	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.6	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.5	70	130			
Surr: Dibromofluoromethane	8.3		10.00		83.2	70	130			

#### Qualifiers:

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

9.7

10.00

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

97.4

70

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9



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 Num	nber: 2108C74		RcptNo: 1	
Received By: Cheyenne Cason	8/24/2021 7:00:00	АМ	Chul		
Completed By: Sean Livingston	8/24/2021 11:32:0	6 AM	Chul	/	
Reviewed By: KP4 8/24/	21		JU.	John	
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 samp	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
		163	140		
6. Sufficient sample volume for indicated to	est(s)?	Yes 🗸	No 🗌		
$7_{\cdot}$ Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗆	
9. Received at least 1 vial with headspace	<1/4" for AO VOA?	Yes 🗸	No 🗌	NA 🗌	
10. Were any sample containers received b		Yes	No 🗹	NA L	
To	okon:	103	110	# of preserved bottles checked	
11. Does paperwork match bottle labels?		Yes 🗸	No 🗌	for pH:	
(Note discrepancies on chain of custody				(<2 or >12 unless no Adjusted?	ted)
12. Are matrices correctly identified on Chair	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were requested 14. Were all holding times able to be met?	?	Yes 🗸	No 🗌	Checked by: SPA 8	7.5
(If no, notify customer for authorization.)		ies 💌	140	/ Silodica b): 3 ( // 0	
Special Handling (if applicable)			/		
15. Was client notified of all discrepancies v	vith this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date		THE LET THE COME THE THE COMMERCE AND ADDRESS OF THE COMME		
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:		THE RESIDENCE TO SECURE	A CHANGE BY STREET, WE SERVE AT CREET	NV. TOUTOURS HEREITY - NO ACTUAL GARLES AND ACTUAL AND	
Client Instructions:				NATIVE OF SERVICE STREAM OF SERVICE STREAM	
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					

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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

December 17, 2021

Julie Best SIMCOE 1100 Main St. Durango, CO 81301

TEL: (505) 330-9179

FAX:

RE: Mudge B 12R OrderNo.: 2112613

#### Dear Julie Best:

Hall Environmental Analysis Laboratory received 2 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 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT: SIMCOE** 

### **Analytical Report**

Lab Order **2112613**Date Reported: **12/17/2021** 

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW #2

**Project:** Mudge B 12R **Collection Date:** 12/8/2021 1:40:00 PM

**Lab ID:** 2112613-001 **Matrix:** AQUEOUS **Received Date:** 12/9/2021 7:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JR</b>
Benzene	1.7	1.0	μg/L	1	12/14/2021 1:02:54 AM
Toluene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Ethylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Naphthalene	ND	2.0	μg/L	1	12/14/2021 1:02:54 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	12/14/2021 1:02:54 AM
2-Methylnaphthalene	ND	4.0	μg/L	1	12/14/2021 1:02:54 AM
Acetone	ND	10	μg/L	1	12/14/2021 1:02:54 AM
Bromobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Bromodichloromethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Bromoform	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Bromomethane	ND	3.0	μg/L	1	12/14/2021 1:02:54 AM
2-Butanone	ND	10	μg/L	1	12/14/2021 1:02:54 AM
Carbon disulfide	ND	10	μg/L	1	12/14/2021 1:02:54 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Chlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Chloroethane	ND	2.0	μg/L	1	12/14/2021 1:02:54 AM
Chloroform	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Chloromethane	ND	3.0	μg/L	1	12/14/2021 1:02:54 AM
2-Chlorotoluene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
4-Chlorotoluene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
cis-1,2-DCE	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	12/14/2021 1:02:54 AM
Dibromochloromethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Dibromomethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,3-Dichloropropane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	12/14/2021 1:02:54 AM

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

#### 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 Quanitative 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 7

## **Analytical Report**

Lab Order **2112613**Date Reported: **12/17/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW #2

 Project:
 Mudge B 12R
 Collection Date: 12/8/2021 1:40:00 PM

 Lab ID:
 2112613-001
 Matrix: AQUEOUS
 Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JR</b>
1,1-Dichloropropene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
2-Hexanone	ND	10	μg/L	1	12/14/2021 1:02:54 AM
Isopropylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
4-Isopropyltoluene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	12/14/2021 1:02:54 AM
Methylene Chloride	ND	3.0	μg/L	1	12/14/2021 1:02:54 AM
n-Butylbenzene	ND	3.0	μg/L	1	12/14/2021 1:02:54 AM
n-Propylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
sec-Butylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Styrene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
tert-Butylbenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	12/14/2021 1:02:54 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
trans-1,2-DCE	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	12/14/2021 1:02:54 AM
Vinyl chloride	ND	1.0	μg/L	1	12/14/2021 1:02:54 AM
Xylenes, Total	ND	1.5	μg/L	1	12/14/2021 1:02:54 AM
Surr: 1,2-Dichloroethane-d4	113	70-130	%Rec	1	12/14/2021 1:02:54 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	12/14/2021 1:02:54 AM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	12/14/2021 1:02:54 AM
Surr: Toluene-d8	97.7	70-130	%Rec	1	12/14/2021 1:02:54 AM

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

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 Quanitative 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 2 of 7

# **Analytical Report**Lab Order **2112613**

Date Reported: 12/17/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW #3

 Project:
 Mudge B 12R
 Collection Date: 12/8/2021 1:28:00 PM

 Lab ID:
 2112613-002
 Matrix: AQUEOUS
 Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: <b>JR</b>
Benzene	1.2	1.0	μg/L	1	12/14/2021 1:31:15 AM
Toluene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Ethylbenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,2,4-Trimethylbenzene	14	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Naphthalene	ND	2.0	μg/L	1	12/14/2021 1:31:15 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	12/14/2021 1:31:15 AM
2-Methylnaphthalene	ND	4.0	μg/L	1	12/14/2021 1:31:15 AM
Acetone	ND	10	μg/L	1	12/14/2021 1:31:15 AM
Bromobenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Bromodichloromethane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Bromoform	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Bromomethane	ND	3.0	μg/L	1	12/14/2021 1:31:15 AM
2-Butanone	ND	10	μg/L	1	12/14/2021 1:31:15 AM
Carbon disulfide	ND	10	μg/L	1	12/14/2021 1:31:15 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Chlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Chloroethane	ND	2.0	μg/L	1	12/14/2021 1:31:15 AM
Chloroform	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Chloromethane	ND	3.0	μg/L	1	12/14/2021 1:31:15 AM
2-Chlorotoluene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
4-Chlorotoluene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
cis-1,2-DCE	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	12/14/2021 1:31:15 AM
Dibromochloromethane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Dibromomethane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
1,3-Dichloropropane	ND	1.0	μg/L	1	12/14/2021 1:31:15 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	12/14/2021 1:31:15 AM

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

#### 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 Quanitative 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 3 of 7

## **Analytical Report**

Lab Order **2112613**Date Reported: **12/17/2021** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: MW #3

 Project:
 Mudge B 12R
 Collection Date: 12/8/2021 1:28:00 PM

 Lab ID:
 2112613-002
 Matrix: AQUEOUS
 Received Date: 12/9/2021 7:25:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8260B: VOLATILES** Analyst: JR 1.1-Dichloropropene ND 1.0 μg/L 1 12/14/2021 1:31:15 AM Hexachlorobutadiene ND 1.0 μg/L 1 12/14/2021 1:31:15 AM ND 10 12/14/2021 1:31:15 AM 2-Hexanone μg/L 1 Isopropylbenzene ND 1.0 µg/L 1 12/14/2021 1:31:15 AM 4-Isopropyltoluene 1.5 1.0 μg/L 1 12/14/2021 1:31:15 AM μg/L 4-Methyl-2-pentanone ND 10 1 12/14/2021 1:31:15 AM Methylene Chloride ND 3.0 μg/L 1 12/14/2021 1:31:15 AM n-Butylbenzene ND 3.0 μg/L 1 12/14/2021 1:31:15 AM ND n-Propylbenzene 12/14/2021 1:31:15 AM 1.0 μg/L 1 sec-Butylbenzene ND 1.0 μg/L 1 12/14/2021 1:31:15 AM Styrene ND 1.0 μg/L 1 12/14/2021 1:31:15 AM tert-Butylbenzene ND 1.0 μg/L 1 12/14/2021 1:31:15 AM 1,1,1,2-Tetrachloroethane ND 1.0 μg/L 1 12/14/2021 1:31:15 AM 1,1,2,2-Tetrachloroethane ND 12/14/2021 1:31:15 AM 2.0 μg/L 1 Tetrachloroethene (PCE) ND 1.0 μg/L 1 12/14/2021 1:31:15 AM trans-1.2-DCE ND 1.0 μg/L 1 12/14/2021 1:31:15 AM trans-1,3-Dichloropropene ND 1.0 μg/L 1 12/14/2021 1:31:15 AM 1,2,3-Trichlorobenzene ND 1 12/14/2021 1:31:15 AM 1.0 μg/L 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 12/14/2021 1:31:15 AM 1,1,1-Trichloroethane ND 1.0 μg/L 1 12/14/2021 1:31:15 AM 1,1,2-Trichloroethane ND 1.0 µg/L 1 12/14/2021 1:31:15 AM Trichloroethene (TCE) ND 1.0 μg/L 1 12/14/2021 1:31:15 AM Trichlorofluoromethane ND 1.0 µg/L 1 12/14/2021 1:31:15 AM 1,2,3-Trichloropropane ND 2.0 µg/L 1 12/14/2021 1:31:15 AM Vinyl chloride ND 1.0 μg/L 1 12/14/2021 1:31:15 AM Xylenes, Total ND µg/L 12/14/2021 1:31:15 AM 1.5 1 Surr: 1,2-Dichloroethane-d4 106 70-130 %Rec 1 12/14/2021 1:31:15 AM Surr: 4-Bromofluorobenzene %Rec 87.3 70-130 1 12/14/2021 1:31:15 AM Surr: Dibromofluoromethane %Rec 1 12/14/2021 1:31:15 AM 104 70-130 Surr: Toluene-d8 98.9 70-130 %Rec 1 12/14/2021 1:31:15 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
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- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

ND

1.0

2112613 17-Dec-21

WO#:

Client: SIMCOE
Project: Mudge B 12R

Sample ID: 100ng Ics	SampT	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch	n ID: R8	4495	F	RunNo: 8	4495							
Prep Date:	Analysis D	ate: 12	2/13/2021	\$	SeqNo: 2	969399	Units: µg/L						
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: mb	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES				
Client ID: PBW	Client ID: PBW Batch ID: R84495					95 RunNo: <b>84495</b>						
Prep Date:	Analysis D	2/13/2021	8	SeqNo: 2	969421	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	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:

Toluene

- 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 Quanitative Limit
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- 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, Inc.

2112613 17-Dec-21

WO#:

Client: SIMCOE
Project: Mudge B 12R

Sample ID: mb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW	Batch	1D: <b>R8</b>	4495	R	RunNo: 84	4495				
Prep Date:	Analysis D	ate: 12	/13/2021	S	SeqNo: 29	969421	Units: µg/L			
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 Quanitative 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, Inc.

2112613 17-Dec-21

WO#:

Client: SIMCOE
Project: Mudge B 12R

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: El	ATILES				
Client ID: PBW	Batch	n ID: <b>R8</b>	4495	F	RunNo: 84	4495				
Prep Date:	Analysis D	oate: 12	2/13/2021	5	SeqNo: 29	969421	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	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
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- 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

Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: SIMCOE Work Order Number: 2112613 RcptNo: 1 Received By: **Tracy Casarrubias** 12/9/2021 7:25:00 AM Completed By: **Tracy Casarrubias** 12/9/2021 10:16:10 AM Reviewed By: 12/10/21 Chain of Custody 1. Is Chain of Custody complete? No 🗌 Yes 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No  $\square$ NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No  $\square$ Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? No [ Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗆 8. Was preservative added to bottles? No 🗸 NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 🗸 No 🗌 NA 🗌 10. Were any sample containers received broken? Yes  $\square$ No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? No 🗌 Yes 🗸 Checked by: JA 12/10/21 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 NA 🗸 No 🗌 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Additional remarks: 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			<u> </u>

	Rush ANALYSTIC LABORATORY	www.nailenvironmental.com 4901 Hawkins NE - Alburaneral NM 82100	Tel 505-345-3975 Fax 505-346-4107	Analysis	*(0	SWS (*)	PC PC	102, 1082 (MB) (102, 103)	3/8/8 3/8/8 3/10 3/10 (A/	0 (C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	MTI SED (SED (ACC) STICE (ACC)	Preservative HEAL No. TEX Per PH: 801 PER PH: 801 PER	8 COO   CO   CO   CO   CO   CO   CO   CO	1003	T						Date Time Remarks:	J
Turn-Around Time:	Standard	 Mudge B #12R	Project #:		Project Manager:	Julie Best		Sampler: Emma Millar	On Ice: 📈 Ye	# of Coolers:	Cooler Temp(including CF):		40ml VOA x 2 HCI &	40ml VOA x 2 HCI &	T						Received by: Via:	222
Chain-of-Custody Record	Simcoe LLC	1199 Main Ave Suite 101	Durango, CO 81301	-0131	st@ikavenergy.com	T T	☐ Level 4 (Full Validation)	npliance	□ Other	14			MW #2	WATER MW#3							Relinquished by:	Polinguished by:
Chain-C	Client:	Mailing Address:	Dr	Phone #:970-394-0131	email or Fax#: ju		Standard	creditation:		☐ EDD (Type)		Date	1340	1329 W							Date: Time: Re	Time:



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

September 23, 2021

Julie Best SIMCOE 1100 Main St. Durango, CO 81301

TEL: (505) 330-9179

FAX:

RE: Mudge B 012R OrderNo.: 2109861

#### Dear Julie Best:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/16/2021 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 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,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2109861

Date Reported: 9/23/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE Client Sample ID: SVE

 Project:
 Mudge B 012R
 Collection Date: 9/15/2021 11:30:00 AM

 Lab ID:
 2109861-001
 Matrix: AIR
 Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed			
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB			
Gasoline Range Organics (GRO)	6200	50		μg/L	10	9/21/2021 10:23:50 AM			
Surr: BFB	681	37.3-213	S	%Rec	10	9/21/2021 10:23:50 AM			
EPA METHOD 8021B: VOLATILES						Analyst: NSB			
Benzene	1.2	0.10		μg/L	1	9/21/2021 9:36:39 AM			
Toluene	7.0	0.10		μg/L	1	9/21/2021 9:36:39 AM			
Ethylbenzene	4.3	0.10		μg/L	1	9/21/2021 9:36:39 AM			
Xylenes, Total	28	2.0		μg/L	10	9/21/2021 10:23:50 AM			
Surr: 4-Bromofluorobenzene	461	70-130	S	%Rec	1	9/21/2021 9:36:39 AM			

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

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 Quanitative 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 3

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2109861 23-Sep-21** 

Client: SIMCOE
Project: Mudge B 012R

Sample ID: 2109861-001adup SampType: DUP TestCode: EPA Method 8015D: Gasoline Range

Client ID: SVE Batch ID: B81432 RunNo: 81432

Prep Date: Analysis Date: 9/21/2021 SeqNo: 2877297 Units: µg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 5900 50 3.60 20

Sasoline Range Organics (GRO) 5900 50 3.60 20 Surr: BFB 130000 20000 666 37.3 213 0 0 S

#### 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 Quanitative Limit

- 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, Inc.

WO#: **2109861 23-Sep-21** 

Client: SIMCOE
Project: Mudge B 012R

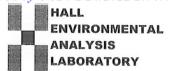
Sample ID: 2109861-001adup SampType: DUP TestCode: EPA Method 8021B: Volatiles Client ID: SVE Batch ID: **D81432** RunNo: 81432 Prep Date: Analysis Date: 9/21/2021 SeqNo: 2877319 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 20 Benzene 1.2 1.0 4.07 Toluene 7.4 1.0 3.62 20 Ethylbenzene 4.0 1.0 2.04 20 28 20 Xylenes, Total 2.0 2.14 20 20.00 97.7 70 130 0 0 Surr: 4-Bromofluorobenzene

#### 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 3 of 3



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 N	lumber:	210986	1		RcptN	lo: 1	MANUSCO DE CONSTRUENCIA DE LA CO
Received By:	Sean Liv	ingston	9/16/2021 8:10	:00 AM		<	· /	note		
Completed By:	Sean Liv	ingston	9/16/2021 2:00:	39 PM		<		not		
Reviewed By:		/16/21				J	)	1701-		
Chain of Cus		,								
1. Is Chain of C		olete?			Yes 🔽	N	o 🗌	Not Present		
2. How was the	sample deli	vered?		<u>!</u>	Courier					
Log In										
3. Was an atten	npt made to	cool the sampl	es?	,	Yes 🗸	] N	o 🗌	NA 🗆		
1 Were all same	nlos roccivo	d at a tamparat	ure of >0° C to 6.0°C			1 <b>N</b>	o 🗆		ı	
4. Wele all Salli	oles received	u at a temperat	ure or >0 C to 6.0 C		Yes 🗸	l IN	0 🗀	NA 🗆	l	
5. Sample(s) in	proper conta	ainer(s)?		,	Yes 🗸	) N	0 🗌			
6. Sufficient sam	ple volume	for indicated te	st(s)?	Υ	′es 🗸	No				
7. Are samples (	except VOA	and ONG) pro	perly preserved?	Y	es 🗸	No				
8. Was preserva	tive added to	o bottles?		Y	es 🗌	No	<b>V</b>	NA 🗌		
9. Received at le	ast 1 vial wi	th headspace <	<1/4" for AQ VOA?	Y	′es 🗌	No		NA 🗸		
10. Were any san				,	res		o 🗸			
								# of preserved bottles checked		
11. Does paperwo				Y	'es 🗸	No		for pH:	1	
12. Are matrices of		ain of custody)		V	es 🗸	No		(<2 Adjusted?	or 12 ur	nless noted)
13. Is it clear what					es 🗸	No				
14. Were all holdi	ng times abl	e to be met?			es 🗸	No		Checked by:	KPG	9/16/2
(If no, notify co		*************************************								
Special Handl										
15. Was client no	tified of all d	liscrepancies w	rith this order?	`	Yes ∟	N <sub>0</sub>	o []	NA 🗸		
Person	Notified:	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	D	ate:	Delings (nazrani)	ARLE VEHICLES SHORE SEASON	Control of the Contro			
By Who			V	ia:	eMail	Phone [	Fax	☐ In Person		
Regardi	-	Potrionistrationistationistati	MERANTHER SATISFICATION OF THE	Pransprant record	and the second second second					
	nstructions:	magh.								
16. Additional rer	marks:									
17. Cooler Infor	100000000000000000000000000000000000000	I con a supplementation								
Cooler No			Seal Intact Seal N	o Sea	al Date	Signed	Ву			
2	-0.3 3.7	Good Good								

If necessary, salgiples 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

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

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 74755

#### **CONDITIONS**

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	74755
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

#### CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the SIMCOE LLC Remediation Report: Content Satisfactory 1. Continue to conduct quarterly groundwater monitoring 2. Continue to operate the SVE system and submit reports regularly 3. Submit the 2023 Remediation Report by or before April 1, 2024.	9/7/2023