SIMCOE LLC
(formerly BPX Energy Inc.)

REVIEWED
By Mike Buchanan at 11:19 am, Sep 12, 2023

MONITOR WELL TESTING REPORT

Review of the Monitor Well Testing Report for SIMCOE LLC Mudge LS 006: **Content is Satisfactory**.
1)Continue to conduct groundwater monitoring at the site on a quarterly basis as prescribed.
2) Continue to submit annual reports and submit 2023 on or before April 1, 2024.

MUDGE LS 006
(M) SECTION 11, 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 LS # 6
Unit Letter M, Sec. 11, T31N, R11W
Incident #: nCS1423254576 API #: 3004510843

Monitor/Test Well Sampling Dates: **06/18/15, 08/31/15, 12/08/15, 03/16/16, 06/27/16, 08/31/16, 12/28/16, 03/15/17, 09/20/17, 12/20/17, 03/28/18, 06/28/18, 09/25/18, 12/19/18, 03/29/19, 06/28/19, 09/19/19, 12/20/19, 03/31/20, 06/08/20, 09/17/20, 12/19/20, 03/02/21, 06/20/21, 08/20/21, 12/08/21.**

Background:

In August 2014, impacted soil was discovered during construction operations to the replace the onsite below grade tank (BGT) at the Mudge LS #006 well site. Impacted soils were excavated to the extent practicable and groundwater monitoring wells were installed on site. In June 2018, MW #2 was damaged and can no longer be sampled. In August 2018, MW #3 was removed and grouted during installation of other monitoring wells.

Groundwater Monitor Well Sampling Procedures:

Prior to sample collection, approximately three wellbore volumes were purged from the sample 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-ofcustody to Hall Environmental Analysis Laboratory 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 the monitoring well purging were discarded into the tank located on the well site. The tank contents are disposed of through approved NMOCD operational procedures for removal of produced fluids..

Summary:

Benzene and total xylenes were elevated above the New Mexico Water Quality Control Commission (NMWQCC) standards in MW #1 during all four sampling events conducted in 2021. Toluene was elevated above the NMWQCC standard in MW #1 during the August 20, 2021 sampling event. A groundwater sampling results table is included and the groundwater sampling laboratory reports from the 2021 groundwater sampling are included.

Conclusion:

Benzene and total xylenes were elevated above the NMWQCC standards in MW #1 during all four sampling events conducted in 2021. Toluene was elevated above the NMWQCC standard in MW #1 during the August 20, 2021 sampling event. In the future, Simcoe may advance subsurface soil borings to verify closure standards are met. Simcoe will continue to conduct groundwater monitoring and sampling as required.

Cottonwood CONSULTING

Mudge LS #006
Groundwater Sampling Results
Simcoe LLC

Sample ID	Sample Date	Depth to Water (ft)	Well Depth (ft)	TDS (mg/L)	Conductivity (umhos)	pH	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW #1	06/18/15	22.90	27.20	3,700	NA	NA	**1,700**	**2,100**	540	**4,200**
"	08/31/15	22.68	-	-	3,400	6.76	**1,300**	**1,000**	420	**2,300**
"	12/08/15	22.39	-	-	3,100	6.79	**730**	280	330	**1,400**
"	03/10/16	21.73	-	-	3,100	6.91	**630**	170	220	**1,000**
"	06/27/16	21.29	-	-	2,600	7.08	**1,700**	**1,300**	590	**4,300**
"	08/31/16	21.43	-	-	2,800	6.86	**730**	190	260	**1,000**
"	12/28/16	21.20	-	-	2,800	6.84	**480**	260	250	**1,200**
"	03/15/17	18.75	-	-	3,200	6.90	**620**	380	250	**1,200**
"	09/20/17	17.72	-	-	2,700	6.91	**2,000**	**1,300**	370	**2,100**
"	12/20/17	17.99	-	-	NA	NA	**2,800**	**2,400**	600	**3,600**
"	03/28/18	19.01	-	-	2,800	7.26	**1,800**	**1,300**	410	**2,200**
"	06/28/18	19.53	-	-	2,300	7.03	**470**	300	170	**680**
"	09/25/18	19.78	-	-	2,400	7.10	**400**	80	94	320
"	12/19/18	20.34	-	-	2,600	7.12	**2,000**	**1,600**	490	**2,400**
"	03/29/19	19.78	-	-	2,400	7.12	**450**	380	120	**510**
"	06/28/19	17.57	-	-	1,800	7.25	**5,400**	**3,600**	**810**	**6,000**
"	09/19/19	17.22	-	-	1,800	6.99	**1,400**	**1,400**	330	**2,400**
"	12/20/19	18.32	-	-	2,200	7.11	**480**	480	120	600
"	03/31/20	19.20	-	-	2,300	6.97	**2,800**	**2,200**	370	**2,300**
"	06/08/20	19.52	-	-	2,100	7.03	**1,700**	**1,900**	450	**2,700**
"	09/17/20	20.00	-	-	1,900	7.00	**2,500**	**2,200**	530	**2,900**
"	12/19/20	20.60	-	-	2,800	7.25	**3,100**	**3,100**	570	**3,500**
"	03/02/21	-	-	-	-	-	**930**	800	220	**1,100**
"	06/10/21	-	-	-	-	-	**760**	710	170	**800**
"	08/20/21	21.69	-	-	3,740	7.41	**1,600**	**2,400**	380	**2,600**
"	12/08/21	21.82	-	-	3,850	7.27	**720**	910	190	**860**
MW #2	06/18/15	23.55	32.40	3,870	NA	NA	**2,000**	**2,100**	77	150
"	08/31/15	23.33	-	-	3,900	6.76	**1,500**	66	52	130
"	12/08/15	22.71	-	-	3,700	6.81	**1,000**	ND	ND	ND
"	03/10/16	22.02	-	-	3,400	6.68	**760**	ND	ND	ND
"	06/27/16	21.61	-	-	2,600	7.13	**420**	ND	3.9	6.6
"	08/31/16	21.11	-	-	3,200	6.75	**320**	ND	3.4	4.2
"	12/28/16	21.80	-	-	3,100	6.88	**230**	ND	8.8	34
"	03/15/17	19.73	-	-	3,000	6.95	**220**	ND	9.6	45
"	09/20/17	18.05	-	-	2,800	6.85	**93**	ND	ND	ND
"	12/20/17	19.07	-	-	NA	NA	**40**	ND	ND	ND
"	03/28/18	19.93	-	-	3,800	7.06	**21**	ND	ND	ND
"	06/28/18	Well screen interval crimped/damaged approx. 20.80 ft. from top of casing or 18.40 ft. below grade								
MW #3	06/18/15	21.87	32.00	3,870	NA	NA	**2,000**	**4,900**	680	**5,500**
"	08/31/15	21.75	-	-	3,100	6.73	**2,300**	**2,300**	360	**2,600**
"	12/08/15	21.47	-	-	3,000	6.82	**2,400**	**2,900**	280	**2,000**
"	03/10/16	20.33	-	-	2,600	6.84	**4,600**	**6,100**	420	**5,900**
"	06/27/16	19.89	-	-	2,100	7.05	**4,400**	**10,000**	650	**9,400**
"	08/31/16	Well intentionally removed & grouted during installation of other monitor wells by another contracto								
MW # 9	03/28/18	19.13	21.65	4,370	4,400	7.46	ND	ND	ND	ND
"	06/28/18	9.38	-	-	3,200	6.65	ND	ND	ND	ND
"	09/25/18	9.75	-	-	3,400	7.25	ND	ND	ND	ND
"	12/19/18	10.09	-	-	4,000	7.31	ND	ND	ND	ND
"	03/29/19	8.78	-	-	3,600	7.33	ND	ND	ND	ND
"	06/28/19	9.83	-	-	2,500	7.13	ND	ND	ND	ND
"	09/19/19	9.07	-	-	2,500	6.96	ND	ND	ND	ND
"	12/20/19	9.73	-	-	3,400	7.32	ND	ND	ND	ND
	NMWQCC Groundwater Standard				1,000	6-9	5	1000	700	620

Cottonwood CONSULTING

Mudge LS #006
Groundwater Sampling Results
Simcoe LLC

Sample ID	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-Nitrite as N (mg/L)	Iron (mg/L)	TDS (mg/L)	Manganese (mg/L)
MW #1	06/18/15	0.29	24	**2,000**	ND	**6.6**	**3,700**	**4.5**
MW #2	06/18/15	0.40	24	**1,800**	ND	**13**	**3,870**	**4.9**
MW #3	06/18/15	0.44	33	**2,100**	ND	**13**	**3,870**	**1.7**
MW #9	03/28/18	NA	40	**3,100**	NA	NA	**4,370**	NA
Produced Water	06/18/15	ND	ND	8.6	ND	NA	190	NA
NMWQCC Groundwater Standard		1.6	250.0	600.0	10.0	1.0	1,000	0.2

Notes:
TDS - Total Dissolved Solids
ft - feet
mg/L - milligrams per liter
umhos - microhms
ppb - parts per billion
NA - Not Applicable
ND - Not Detected
N - Nitrogen
"-"- Indicates no data
NMWQCC - New Mexico Water Quality Control Commission
Depth to water measured from top of well casing
Bold values exceed NMWQCC Standard

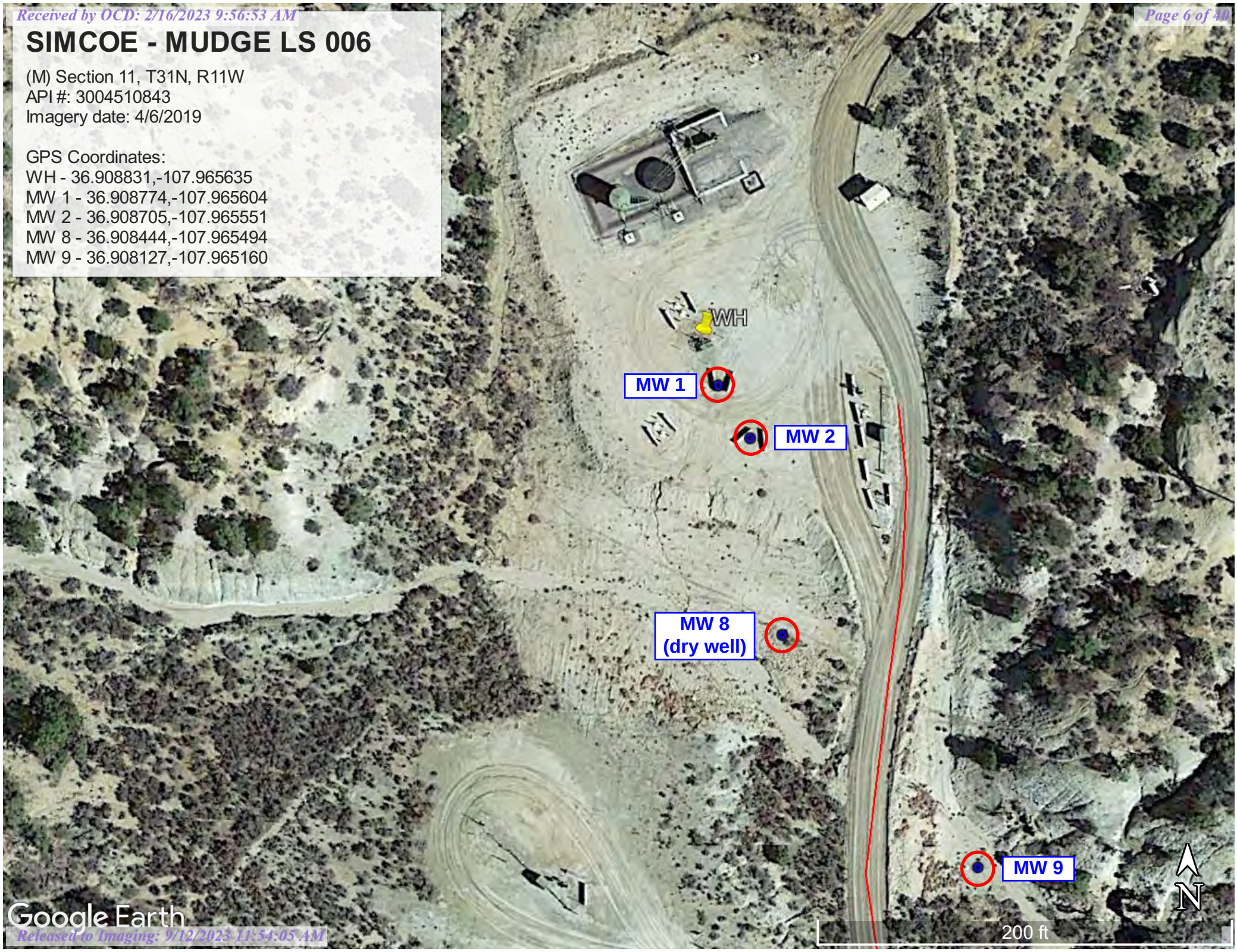
AERIAL

SITE MAP

SIMCOE - MUDGE LS 006

(M) Section 11, T31N, R11W
API #: 3004510843
Imagery date: 4/6/2019

GPS Coordinates:
WH - 36.908831,-107.965635
MW 1 - 36.908774,-107.965604
MW 2 - 36.908705,-107.965551
MW 8 - 36.908444,-107.965494
MW 9 - 36.908127,-107.965160



LABORATORY

REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 16, 2021

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

RE: Mudge LS 6 OrderNo.: 2103240

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2103240**
Date Reported: **3/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW-1
Project: Mudge LS 6 **Collection Date:** 3/2/2021 2:12:00 PM
Lab ID: 2103240-001 **Matrix:** GROUNDWA **Received Date:** 3/4/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
Benzene	930	10		µg/L	20	3/13/2021 8:36:11 AM
Toluene	800	10		µg/L	20	3/13/2021 8:36:11 AM
Ethylbenzene	220	10		µg/L	20	3/13/2021 8:36:11 AM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	3/13/2021 8:36:11 AM
1,2,4-Trimethylbenzene	200	10		µg/L	20	3/13/2021 8:36:11 AM
1,3,5-Trimethylbenzene	36	10		µg/L	20	3/13/2021 8:36:11 AM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	3/13/2021 8:36:11 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Naphthalene	ND	20		µg/L	20	3/13/2021 8:36:11 AM
1-Methylnaphthalene	ND	40		µg/L	20	3/13/2021 8:36:11 AM
2-Methylnaphthalene	ND	40		µg/L	20	3/13/2021 8:36:11 AM
Acetone	ND	100		µg/L	20	3/13/2021 8:36:11 AM
Bromobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Bromodichloromethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Bromoform	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Bromomethane	ND	30		µg/L	20	3/13/2021 8:36:11 AM
2-Butanone	ND	100		µg/L	20	3/13/2021 8:36:11 AM
Carbon disulfide	ND	100		µg/L	20	3/13/2021 8:36:11 AM
Carbon Tetrachloride	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Chlorobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Chloroethane	ND	20		µg/L	20	3/13/2021 8:36:11 AM
Chloroform	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Chloromethane	ND	30		µg/L	20	3/13/2021 8:36:11 AM
2-Chlorotoluene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
4-Chlorotoluene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
cis-1,2-DCE	ND	10		µg/L	20	3/13/2021 8:36:11 AM
cis-1,3-Dichloropropene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	20	3/13/2021 8:36:11 AM
Dibromochloromethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Dibromomethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,2-Dichlorobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,3-Dichlorobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,4-Dichlorobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Dichlorodifluoromethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,1-Dichloroethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,1-Dichloroethene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,2-Dichloropropane	ND	20		µg/L	20	3/13/2021 8:36:11 AM
1,3-Dichloropropane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
2,2-Dichloropropane	ND	20		µg/L	20	3/13/2021 8:36:11 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2103240**
Date Reported: **3/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW-1
Project: Mudge LS 6 **Collection Date:** 3/2/2021 2:12:00 PM
Lab ID: 2103240-001 **Matrix:** GROUNDWA **Received Date:** 3/4/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
1,1-Dichloropropene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Hexachlorobutadiene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
2-Hexanone	ND	100		µg/L	20	3/13/2021 8:36:11 AM
Isopropylbenzene	33	10		µg/L	20	3/13/2021 8:36:11 AM
4-Isopropyltoluene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
4-Methyl-2-pentanone	ND	100		µg/L	20	3/13/2021 8:36:11 AM
Methylene Chloride	ND	30		µg/L	20	3/13/2021 8:36:11 AM
n-Butylbenzene	ND	30		µg/L	20	3/13/2021 8:36:11 AM
n-Propylbenzene	26	10		µg/L	20	3/13/2021 8:36:11 AM
sec-Butylbenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Styrene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
tert-Butylbenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	20	3/13/2021 8:36:11 AM
Tetrachloroethene (PCE)	ND	10		µg/L	20	3/13/2021 8:36:11 AM
trans-1,2-DCE	ND	10		µg/L	20	3/13/2021 8:36:11 AM
trans-1,3-Dichloropropene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,1,1-Trichloroethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,1,2-Trichloroethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Trichloroethene (TCE)	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Trichlorofluoromethane	ND	10		µg/L	20	3/13/2021 8:36:11 AM
1,2,3-Trichloropropane	ND	20		µg/L	20	3/13/2021 8:36:11 AM
Vinyl chloride	ND	10		µg/L	20	3/13/2021 8:36:11 AM
Xylenes, Total	1100	15		µg/L	20	3/13/2021 8:36:11 AM
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%Rec	20	3/13/2021 8:36:11 AM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	20	3/13/2021 8:36:11 AM
Surr: Dibromofluoromethane	91.4	70-130		%Rec	20	3/13/2021 8:36:11 AM
Surr: Toluene-d8	106	70-130		%Rec	20	3/13/2021 8:36:11 AM

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103240**
16-Mar-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A75931** RunNo: **75931**
Prep Date: Analysis Date: **3/12/2021** SeqNo: **2686937** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.3	70	130			
Toluene	18	1.0	20.00	0	89.9	70	130			
Chlorobenzene	18	1.0	20.00	0	89.9	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	84.6	70	130			
Trichloroethene (TCE)	15	1.0	20.00	0	72.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.5	70	130			
Surr: Dibromofluoromethane	8.6		10.00		86.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A75931** RunNo: **75931**
Prep Date: Analysis Date: **3/12/2021** SeqNo: **2686938** 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								

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
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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103240**
16-Mar-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A75931**	RunNo: **75931**
Prep Date:	Analysis Date: **3/12/2021**	SeqNo: **2686938** 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103240**
16-Mar-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A75931** RunNo: **75931**
Prep Date: Analysis Date: **3/12/2021** SeqNo: **2686938** 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		90.3	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.2	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.0	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID: **2103240-001ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1** Batch ID: **A75931** RunNo: **75931**
Prep Date: Analysis Date: **3/13/2021** SeqNo: **2686942** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1200	20	400.0	959.8	68.4	70	130			S
Toluene	1100	20	400.0	816.4	79.2	70	130			
Chlorobenzene	390	20	400.0	0	96.7	70	130			
1,1-Dichloroethene	320	20	400.0	0	79.7	70	130			
Trichloroethene (TCE)	280	20	400.0	0	71.0	70	130			
Surr: 1,2-Dichloroethane-d4	180		200.0		89.8	70	130			
Surr: 4-Bromofluorobenzene	190		200.0		96.8	70	130			
Surr: Dibromofluoromethane	170		200.0		82.7	70	130			
Surr: Toluene-d8	210		200.0		104	70	130			

Sample ID: **2103240-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1** Batch ID: **A75931** RunNo: **75931**
Prep Date: Analysis Date: **3/13/2021** SeqNo: **2686943** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1300	20	400.0	959.8	72.8	70	130	1.41	20	
Toluene	1100	20	400.0	816.4	82.8	70	130	1.28	20	
Chlorobenzene	370	20	400.0	0	92.4	70	130	4.55	20	
1,1-Dichloroethene	310	20	400.0	0	76.9	70	130	3.64	20	
Trichloroethene (TCE)	280	20	400.0	0	71.1	70	130	0.212	20	
Surr: 1,2-Dichloroethane-d4	200		200.0		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	190		200.0		95.9	70	130	0	0	
Surr: Dibromofluoromethane	180		200.0		90.1	70	130	0	0	
Surr: Toluene-d8	210		200.0		106	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2103240** RcptNo: 1

Received By: **Juan Rojas** **3/4/2021 7:50:00 AM**

Completed By: **Desiree Dominguez** **3/4/2021 8:53:10 AM**

Reviewed By: ENM 3/4/21

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: DAD 3/4/21

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Client: Simcoe LLC
Bill to IKAV Energy
Mailing Address: 1199 Main St Ste 101
Durango CO 81301
Phone #: 505 330 9179
email or Fax#: smostkal@IKAVEnergy.com
QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Mudge LS 6
Project #: TBD
Project Manager: Steve Mostkal
Sampler:
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 2.3-0.2=2.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2103240	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/2/21	2:12P	GW	MW1	40mlx3	HCl/HA	-001								✓		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/3/21	1555		Christa Waeto		3/3/21	1555
3/3/21	1753			courier	3/4/21	7:50

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 LS 006 OrderNo.: 2106652

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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106652**
Date Reported: **6/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW-1
Project: Mudge LS 006 **Collection Date:** 6/10/2021 11:30:00 AM
Lab ID: 2106652-001 **Matrix:** GROUNDWA **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	760	5.0		µg/L	10	6/18/2021 5:39:58 PM
Toluene	710	10		µg/L	10	6/18/2021 5:39:58 PM
Ethylbenzene	170	10		µg/L	10	6/18/2021 5:39:58 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2,4-Trimethylbenzene	170	10		µg/L	10	6/18/2021 5:39:58 PM
1,3,5-Trimethylbenzene	18	10		µg/L	10	6/18/2021 5:39:58 PM
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	10	6/18/2021 5:39:58 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Naphthalene	ND	20		µg/L	10	6/18/2021 5:39:58 PM
1-Methylnaphthalene	ND	40		µg/L	10	6/18/2021 5:39:58 PM
2-Methylnaphthalene	ND	40		µg/L	10	6/18/2021 5:39:58 PM
Acetone	ND	100		µg/L	10	6/18/2021 5:39:58 PM
Bromobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Bromodichloromethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Bromoform	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Bromomethane	ND	30		µg/L	10	6/18/2021 5:39:58 PM
2-Butanone	ND	100		µg/L	10	6/18/2021 5:39:58 PM
Carbon disulfide	ND	100		µg/L	10	6/18/2021 5:39:58 PM
Carbon Tetrachloride	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Chlorobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Chloroethane	ND	20		µg/L	10	6/18/2021 5:39:58 PM
Chloroform	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Chloromethane	ND	30		µg/L	10	6/18/2021 5:39:58 PM
2-Chlorotoluene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
4-Chlorotoluene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
cis-1,2-DCE	ND	10		µg/L	10	6/18/2021 5:39:58 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/18/2021 5:39:58 PM
Dibromochloromethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Dibromomethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Dichlorodifluoromethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,1-Dichloroethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,1-Dichloroethene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2-Dichloropropane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,3-Dichloropropane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
2,2-Dichloropropane	ND	20		µg/L	10	6/18/2021 5:39:58 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2106652**
Date Reported: **6/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW-1
Project: Mudge LS 006 **Collection Date:** 6/10/2021 11:30:00 AM
Lab ID: 2106652-001 **Matrix:** GROUNDWA **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1-Dichloropropene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Hexachlorobutadiene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
2-Hexanone	ND	100		µg/L	10	6/18/2021 5:39:58 PM
Isopropylbenzene	38	10		µg/L	10	6/18/2021 5:39:58 PM
4-Isopropyltoluene	10	10		µg/L	10	6/18/2021 5:39:58 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	6/18/2021 5:39:58 PM
Methylene Chloride	ND	30		µg/L	10	6/18/2021 5:39:58 PM
n-Butylbenzene	ND	30		µg/L	10	6/18/2021 5:39:58 PM
n-Propylbenzene	23	10		µg/L	10	6/18/2021 5:39:58 PM
sec-Butylbenzene	11	10		µg/L	10	6/18/2021 5:39:58 PM
Styrene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
tert-Butylbenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/18/2021 5:39:58 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/18/2021 5:39:58 PM
trans-1,2-DCE	ND	10		µg/L	10	6/18/2021 5:39:58 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Trichloroethene (TCE)	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Trichlorofluoromethane	ND	10		µg/L	10	6/18/2021 5:39:58 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/18/2021 5:39:58 PM
Vinyl chloride	ND	10		µg/L	10	6/18/2021 5:39:58 PM
Xylenes, Total	800	15		µg/L	10	6/18/2021 5:39:58 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	10	6/18/2021 5:39:58 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	10	6/18/2021 5:39:58 PM
Surr: Dibromofluoromethane	88.2	70-130		%Rec	10	6/18/2021 5:39:58 PM
Surr: Toluene-d8	106	70-130		%Rec	10	6/18/2021 5:39:58 PM

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106652**
22-Jun-21

Client: SIMCOE
Project: Mudge LS 006

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R79222** RunNo: **79222**
Prep Date: Analysis Date: **6/18/2021** SeqNo: **2781505** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.9	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R79222** RunNo: **79222**
Prep Date: Analysis Date: **6/18/2021** SeqNo: **2781550** 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								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106652**
22-Jun-21

Client: SIMCOE
Project: Mudge LS 006

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R79222** RunNo: **79222**
Prep Date: Analysis Date: **6/18/2021** SeqNo: **2781550** 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106652**
22-Jun-21

Client: SIMCOE
Project: Mudge LS 006

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R79222** RunNo: **79222**
Prep Date: Analysis Date: **6/18/2021** SeqNo: **2781550** 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		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		103	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
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2106652** RcptNo: **1**

Received By: **Juan Rojas** **6/11/2021 7:30:00 AM**

Completed By: **Desiree Dominguez** **6/11/2021 8:12:31 AM**

Reviewed By: SCL 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	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: VRG 6/11/21

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

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

Chain-of-Custody Record

Client: Simcoe LLC

Mailing Address: 1199 Main St. Ste 101 Durango CO 81301

Phone #: 505-330-9779

email or Fax#: Steven.mostal@IKAVEnergy.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Mudge LS 006

Project #: TBD

Project Manager: Steve Mostal

Sampler: " "

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.9-0.2=1.7 (°C)

6.6-0.2=0.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106652	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/10/21	11:30	GW	MW-1	VOA x 3	HCl/ICe	-001								X		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/10/21	1610		Natasha Sage		6/10/20	1610
6/10/21	1730	Natasha Sage		courier	6/11/21	7:30

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 31, 2021

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

RE: Mudge LS 6 OrderNo.: 2108C75

Dear Steve Moskal:

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

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2108C75**
Date Reported: **8/31/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW #1
Project: Mudge LS 6 **Collection Date:** 8/20/2021 2:02:00 PM
Lab ID: 2108C75-001 **Matrix:** AQUEOUS **Received Date:** 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	1600	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Toluene	2400	200		µg/L	200	8/27/2021 11:44:00 PM	R80854
Ethylbenzene	380	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2,4-Trimethylbenzene	360	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,3,5-Trimethylbenzene	110	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Naphthalene	ND	40		µg/L	20	8/28/2021 12:07:00 AM	R80854
1-Methylnaphthalene	ND	80		µg/L	20	8/28/2021 12:07:00 AM	R80854
2-Methylnaphthalene	ND	80		µg/L	20	8/28/2021 12:07:00 AM	R80854
Acetone	ND	200		µg/L	20	8/28/2021 12:07:00 AM	R80854
Bromobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Bromodichloromethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Bromoform	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Bromomethane	ND	60		µg/L	20	8/28/2021 12:07:00 AM	R80854
2-Butanone	ND	200		µg/L	20	8/28/2021 12:07:00 AM	R80854
Carbon disulfide	ND	200		µg/L	20	8/28/2021 12:07:00 AM	R80854
Carbon Tetrachloride	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Chlorobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Chloroethane	ND	40		µg/L	20	8/28/2021 12:07:00 AM	R80854
Chloroform	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Chloromethane	ND	60		µg/L	20	8/28/2021 12:07:00 AM	R80854
2-Chlorotoluene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
4-Chlorotoluene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
cis-1,2-DCE	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
cis-1,3-Dichloropropene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	8/28/2021 12:07:00 AM	R80854
Dibromochloromethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Dibromomethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2-Dichlorobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,3-Dichlorobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,4-Dichlorobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Dichlorodifluoromethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,1-Dichloroethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,1-Dichloroethene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2-Dichloropropane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,3-Dichloropropane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
2,2-Dichloropropane	ND	40		µg/L	20	8/28/2021 12:07:00 AM	R80854

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

Qualifiers:

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

Analytical Report
Lab Order **2108C75**
Date Reported: **8/31/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW #1
Project: Mudge LS 6 **Collection Date:** 8/20/2021 2:02:00 PM
Lab ID: 2108C75-001 **Matrix:** AQUEOUS **Received Date:** 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Hexachlorobutadiene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
2-Hexanone	ND	200		µg/L	20	8/28/2021 12:07:00 AM	R80854
Isopropylbenzene	47	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
4-Isopropyltoluene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
4-Methyl-2-pentanone	ND	200		µg/L	20	8/28/2021 12:07:00 AM	R80854
Methylene Chloride	ND	60		µg/L	20	8/28/2021 12:07:00 AM	R80854
n-Butylbenzene	ND	60		µg/L	20	8/28/2021 12:07:00 AM	R80854
n-Propylbenzene	46	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
sec-Butylbenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Styrene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
tert-Butylbenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	8/28/2021 12:07:00 AM	R80854
Tetrachloroethene (PCE)	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
trans-1,2-DCE	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
trans-1,3-Dichloropropene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2,3-Trichlorobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2,4-Trichlorobenzene	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,1,1-Trichloroethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,1,2-Trichloroethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Trichloroethene (TCE)	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Trichlorofluoromethane	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
1,2,3-Trichloropropane	ND	40		µg/L	20	8/28/2021 12:07:00 AM	R80854
Vinyl chloride	ND	20		µg/L	20	8/28/2021 12:07:00 AM	R80854
Xylenes, Total	2600	30		µg/L	20	8/28/2021 12:07:00 AM	R80854
Surr: 1,2-Dichloroethane-d4	79.4	70-130		%Rec	20	8/28/2021 12:07:00 AM	R80854
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	20	8/28/2021 12:07:00 AM	R80854
Surr: Dibromofluoromethane	79.8	70-130		%Rec	20	8/28/2021 12:07:00 AM	R80854
Surr: Toluene-d8	101	70-130		%Rec	20	8/28/2021 12:07:00 AM	R80854

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C75**
31-Aug-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **100ng 8260 lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R80854** RunNo: **80854**
Prep Date: Analysis Date: **8/27/2021** SeqNo: **2853387** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.5	70	130			
Toluene	19	1.0	20.00	0	96.1	70	130			
Chlorobenzene	19	1.0	20.00	0	93.9	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	84.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	83.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	7.9		10.00		79.3	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R80854** RunNo: **80854**
Prep Date: Analysis Date: **8/27/2021** SeqNo: **2853388** 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								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C75**
31-Aug-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R80854**	RunNo: **80854**
Prep Date:	Analysis Date: **8/27/2021**	SeqNo: **2853388** 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C75**
31-Aug-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R80854** RunNo: **80854**
Prep Date: Analysis Date: **8/27/2021** SeqNo: **2853388** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.3		10.00		82.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.2	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2108C75 RcptNo: 1

Received By: Cheyenne Cason 8/24/2021 7:00:00 AM

Completed By: Sean Livingston 8/24/2021 11:35:41 AM

Reviewed By: KPA 8/24/21

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: SPA 8.24.21

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: SIMCOE LLC / COTTONWOOD CONSULTING

Mailing Address: 1199 Main St., Suite # 101
Durango, Colo. 81301

Phone #: (505) 330-9179

email or Fax#: steven.moskal@ikavenergy.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name:
MUDGE LS # 6

Project #:

Project Manager:
Steve Moskal - SIMCOE LLC

Sampler: **Emma Millar - Cottonwood**
On Ice: ☒ Yes ☐ No
Sample Temperature: See Bench

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	Cation / Anion Balance	Total Dissolved Solids		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
8/20/21	1402	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	210C75 001										√				√		

Remarks: **BILL DIRECTLY TO IKAV ENERGY INC.**

CONTACT: **Steve Moskal** **PO to be provided**

1.8 - 0 = 1.8 1.0 - 0 = 1.0
~~1.0 - 0 = 1.0~~ anglesite 1.1 - 0 = 1.1

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/20/21	1430			8/20/21	1430
8/23/21	1430			8/23/21	1430
8/23/21	1827			8/24/21	0700

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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December 15, 2021

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

RE: Mudge LS 6 OrderNo.: 2112616

Dear Julie Best:

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

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112616**
Date Reported: **12/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW#1
Project: Mudge LS 6 **Collection Date:** 12/8/2021 2:35:00 PM
Lab ID: 2112616-001 **Matrix:** AQUEOUS **Received Date:** 12/9/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	720	10		µg/L	10	12/14/2021 4:12:00 AM
Toluene	910	10		µg/L	10	12/14/2021 4:12:00 AM
Ethylbenzene	190	10		µg/L	10	12/14/2021 4:12:00 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2,4-Trimethylbenzene	150	10		µg/L	10	12/14/2021 4:12:00 AM
1,3,5-Trimethylbenzene	22	10		µg/L	10	12/14/2021 4:12:00 AM
1,2-Dichloroethane (EDC)	ND	4.0		µg/L	10	12/14/2021 4:12:00 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Naphthalene	ND	20		µg/L	10	12/14/2021 4:12:00 AM
1-Methylnaphthalene	ND	40		µg/L	10	12/14/2021 4:12:00 AM
2-Methylnaphthalene	ND	40		µg/L	10	12/14/2021 4:12:00 AM
Acetone	ND	100		µg/L	10	12/14/2021 4:12:00 AM
Bromobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Bromodichloromethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Bromoform	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Bromomethane	ND	30		µg/L	10	12/14/2021 4:12:00 AM
2-Butanone	ND	100		µg/L	10	12/14/2021 4:12:00 AM
Carbon disulfide	ND	100		µg/L	10	12/14/2021 4:12:00 AM
Carbon Tetrachloride	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Chlorobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Chloroethane	ND	20		µg/L	10	12/14/2021 4:12:00 AM
Chloroform	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Chloromethane	ND	30		µg/L	10	12/14/2021 4:12:00 AM
2-Chlorotoluene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
4-Chlorotoluene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
cis-1,2-DCE	ND	10		µg/L	10	12/14/2021 4:12:00 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	12/14/2021 4:12:00 AM
Dibromochloromethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Dibromomethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Dichlorodifluoromethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,1-Dichloroethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,1-Dichloroethene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2-Dichloropropane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,3-Dichloropropane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
2,2-Dichloropropane	ND	20		µg/L	10	12/14/2021 4:12:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2112616**
Date Reported: **12/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE **Client Sample ID:** MW#1
Project: Mudge LS 6 **Collection Date:** 12/8/2021 2:35:00 PM
Lab ID: 2112616-001 **Matrix:** AQUEOUS **Received Date:** 12/9/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Hexachlorobutadiene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
2-Hexanone	ND	100		µg/L	10	12/14/2021 4:12:00 AM
Isopropylbenzene	30	10		µg/L	10	12/14/2021 4:12:00 AM
4-Isopropyltoluene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
4-Methyl-2-pentanone	ND	100		µg/L	10	12/14/2021 4:12:00 AM
Methylene Chloride	ND	30		µg/L	10	12/14/2021 4:12:00 AM
n-Butylbenzene	ND	30		µg/L	10	12/14/2021 4:12:00 AM
n-Propylbenzene	18	10		µg/L	10	12/14/2021 4:12:00 AM
sec-Butylbenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Styrene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
tert-Butylbenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	12/14/2021 4:12:00 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	12/14/2021 4:12:00 AM
trans-1,2-DCE	ND	10		µg/L	10	12/14/2021 4:12:00 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Trichloroethene (TCE)	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Trichlorofluoromethane	ND	10		µg/L	10	12/14/2021 4:12:00 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	12/14/2021 4:12:00 AM
Vinyl chloride	ND	10		µg/L	10	12/14/2021 4:12:00 AM
Xylenes, Total	860	15		µg/L	10	12/14/2021 4:12:00 AM
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%Rec	10	12/14/2021 4:12:00 AM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	10	12/14/2021 4:12:00 AM
Surr: Dibromofluoromethane	97.9	70-130		%Rec	10	12/14/2021 4:12:00 AM
Surr: Toluene-d8	101	70-130		%Rec	10	12/14/2021 4:12:00 AM

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112616**
15-Dec-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R84509** RunNo: **84509**
Prep Date: Analysis Date: **12/13/2021** SeqNo: **2969758** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.6	70	130			
Toluene	19	1.0	20.00	0	97.2	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	86.4	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.7		10.00		97.3	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R84509** RunNo: **84509**
Prep Date: Analysis Date: **12/13/2021** SeqNo: **2969759** 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								

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112616**
15-Dec-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R84509**	RunNo: **84509**
Prep Date:	Analysis Date: **12/13/2021**	SeqNo: **2969759** 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112616**
15-Dec-21

Client: SIMCOE
Project: Mudge LS 6

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R84509** RunNo: **84509**
Prep Date: Analysis Date: **12/13/2021** SeqNo: **2969759** 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	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2112616 RcptNo: 1

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

Completed By: **Tracy Casarrubias** 12/9/2021 10:24:07 AM

Reviewed By: KPC 12/10/21

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 12/10/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

Chain-of-Custody Record

Client: Simcoe LLC

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

Phone #: 970-394-0131

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

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
■ Standard ☐ Rush_____

Project Name: Mudge LS #6

Project #:

Project Manager: Julie Best

Sampler: Emma Millar
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.1 - 0 = 3.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112616	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Cations/Anions	Fe, Cu, Mn, Zn				
12/8/21	1435	WATER	MW #1	40ml VOA x 2	HCl & cool	001								■								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/8/21	1515				12/8/21	1515
12/8/21	1847			Courier	12/9/21	7:25

Remarks:

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 187083

CONDITIONS

Operator:	OGRID:
SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	329736
	Action Number: 187083
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Monitor Well Testing Report for SIMCOE LLC Mudge LS 006: Content is Satisfactory. 1)Continue to conduct groundwater monitoring at the site on a quarterly basis as prescribed. 2) Continue to submit annual reports and submit 2023 on or before April 1, 2024.	9/12/2023