

SIMCOE LLC

GROUNDWATER FIELD DATA & LAB BTEX/GENERAL CHEMISTRY RESULTS

GCU Com H # 180 UNIT J, SEC. 28, T29N, R12W
 API #: 3004507814 Incident #: nAUTOFWCO00224

RECEIVED

Revision Date: January 15, 2021
 By Mike Buchanan at 8:48 am, Jan 16, 2024
 Submitted by: Colorado Consulting LLC

BTEX US EPA METHOD 8021B or 8260B

WELL NAME / NUMBER	SAMPLE DATE	DEPTH to WATER (feet)	WELL TOTAL LENGTH (feet)	Field pH	CONDUCT. (µmhos)	TEMP. (celcius)	Naphthalene (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)
MW #101	09/23/19	7.71	11.65	7.45	1,700	19.7	<2.0	<1.0	<1.0	<1.0	<1.5
MW #102	09/23/19	6.84	12.58	7.16	2,400	20.3	26	140	5,000	480	3,400
"	11/07/19	7.23	"	7.27	1,900	18.5	<10	3.7	300	41	320
"	12/04/19	6.97	"	7.06	2,600	14.6	<10	<5.0	280	36	260
"	03/26/20	6.71	"	7.05	2,700	12.7	<4.0	1.8	3.7	2.3	8.4
"	06/03/20	7.03	"	7.00	2,500	17.5	<2.0	2.2	8.7	4.5	11
"	08/27/20	6.98	"	7.10	1,900	22.5	<10	<5.0	17	5.4	11
"	10/14/20	7.14	"	7.22	3,800	19.2	11	19	1300	96	1,900
"	12/18/20	7.33	"	7.33	4,000	13.4	92	<5.0	<5.0	<5.0	6,100
MW #103	09/23/19	7.31	12.58	7.19	2,500	20.3	<10	<5.0	<5.0	43	110
"	12/04/19	7.46	"	7.12	2,700	14.4	<10	<5.0	<5.0	36	82
"	03/26/20	7.21	"	7.19	2,900	11.8	<2.0	<1.0	<1.0	61	160
"	06/03/20	7.54	"	7.05	2,900	17.1	<2.0	<1.0	<1.0	87	230
"	08/27/20	7.48	"	7.11	2,100	21.5	<10	<5.0	<5.0	73	220
"	10/14/20	7.66	"	7.24	4,400	19.1	<10	<5.0	5.5	59	450
"	12/18/20	7.83	"	7.25	4,000	12.2	<2.0	<1.0	1.2	39	250
MW #104	09/23/19	7.46	12.20	7.23	2,300	19.9	<2.0	4.7	1.4	18	92
"	12/04/19	7.64	"	6.99	2,700	13.2	<10	130	<5.0	23	65
"	12/13/19	7.54	"	7.30	3,000	12.4	<2.0	130	2.2	23	63
"	12/23/19	7.64	"	7.22	2,400	11.6	<4.0	110	<2.0	35	110
"	01/22/20	7.50	"	7.27	3,300	9.2	<4.0	270	4.1	48	160
"	03/26/20	7.41	"	7.15	3,200	12.5	<4.0	210	8.0	87	310
"	06/03/20	7.74	"	7.15	3,000	17.6	<4.0	24	<2.0	4.8	78
"	08/27/20	7.59	"	7.17	2,400	23.3	<10	<5.0	<5.0	<5.0	<7.5
"	10/14/20	7.80	"	7.15	4,700	21.0	<10	20	<5.0	<5.0	49
"	12/18/20	8.02	"	7.31	4,100	14.3	<2.0	5.5	<1.0	<1.0	2.7
MW #105	03/26/20	8.03	12.00	7.22	2,700	12.2	<2.0	<1.0	<1.0	<1.0	2.4
"	06/03/20	6.90	"	7.18	2,300	17.0	<2.0	<1.0	<1.0	<1.0	<1.5
"	08/27/20	6.70	"	7.23	1,600	22.3	<10	<5.0	<5.0	<5.0	<7.5
"	10/14/20	6.91	"	7.41	4,100	17.7	<10	<5.0	<5.0	<5.0	<7.5
"	12/18/20	7.16	"	7.49	4,000	12.2	<2.0	<1.0	<1.0	<1.0	<1.5

NMWQCC GROUNDWATER STANDARDS

30	5	1,000	700	620
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Review of the
 Groundwater Field
 Data and Lab Results:
Content Satisfactory

1. Continue to collect gw samples quarterly for the COCs present.
2. Continue to submit groundwater annual reports by April 1, 2024.

SIMCOE LLC**GROUNDWATER FIELD DATA & LAB BTEX/GENERAL CHEMISTRY RESULTS**

GCU Com H # 180 UNIT J, SEC. 28, T29N, R12W
 API #: 3004507814 Incident #: nAUTOFWCO00224

Revision Date: January 15, 2021
 Submitted by Cottonwood Consulting LLC

WELL NAME /NUMBER	SAMPLE DATE	Lab pH	Fluoride (mg/L)	Chloride (mg/L)	Nitrate-N (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Lead (mg/L)	Iron (mg/L)	Manganese (mg/L)
MW #101	09/23/19	7.54	<0.50	100	<0.50	2,300	4,100	<0.0005	0.027	3.8
	12/18/20	7.86	<0.50	110	<0.50	2,500	4,370		0.042	4.4
MW #102	09/23/19	7.39	<0.50	130	<0.50	3,000	5,200	<0.0005	0.14	5.0
"	12/04/19	-	-	-	-	2,900	5,220	-	-	5.7
	12/18/20	7.67	0.66	120	<0.50	3,000	4,840	ND	1.4	5.5
MW #103	09/23/19	7.82	<0.50	130	<0.50	2,100	4,180	<0.0025	0.10	2.6
	12/18/20	7.69	0.56	100	<0.50	2,700	4,540	<0.0025	0.031	8.5
MW #104	09/23/19	7.66	<0.50	130	<0.50	2,500	4,980	<0.0025	0.029	3.8
	12/18/20	7.74	0.58	110	<0.50	3,200	5,320	<0.0025	0.32	8.1
MW #105	03/26/20	7.49	<0.50	140	<0.50	3,100	4,690	<0.0025	0.19	5.9
	12/18/20	7.75	<0.50	110	<0.50	3,200	5,660	<0.0025	0.39	7.0

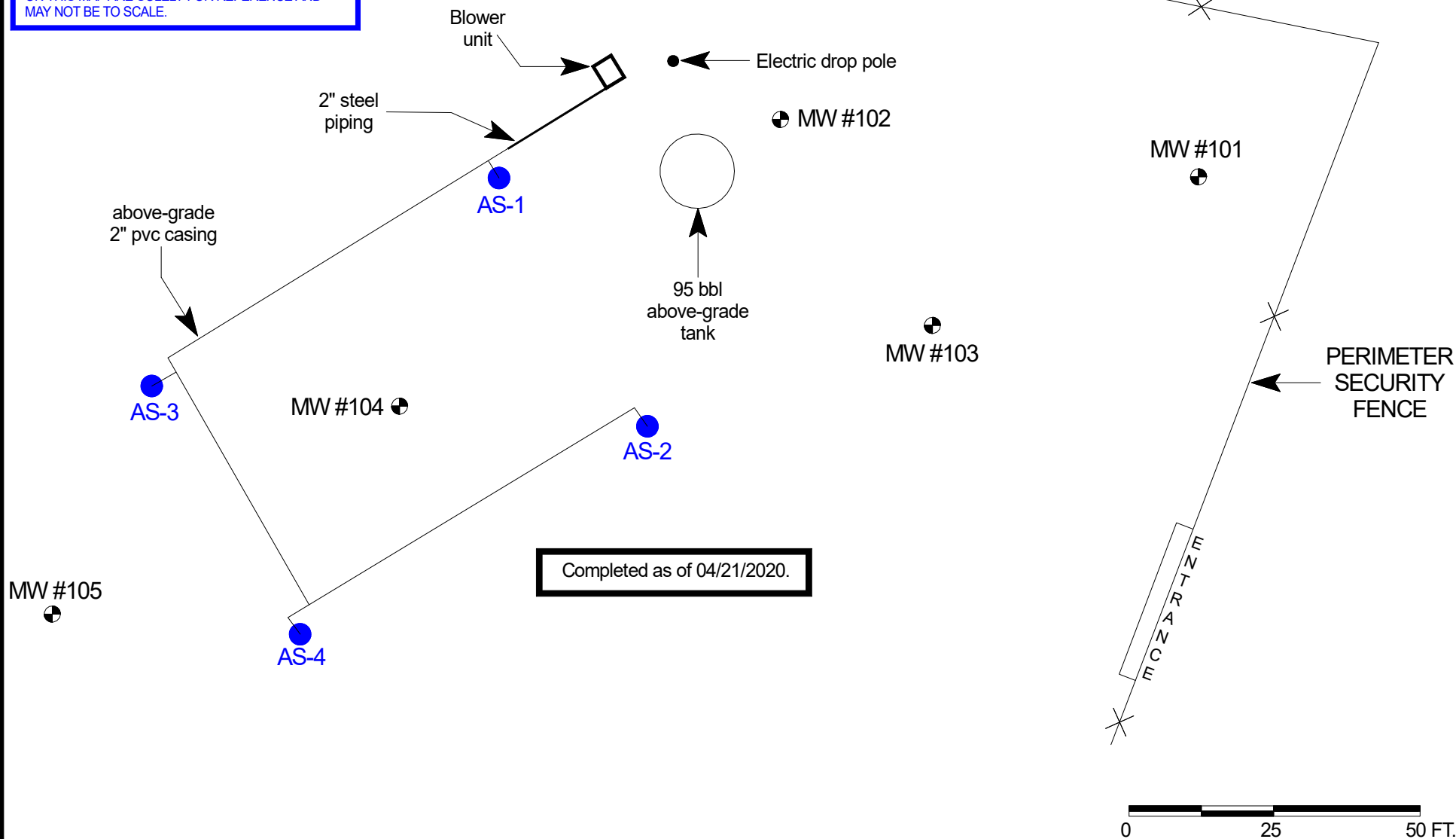
NMWQCC GROUNDWATER STANDARDS

6 - 9	1.6	250	10	600	1,000	0.015	1.0	0.2
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- NOTES :
- 1) NMWQCC Indicates New Mexico Water Quality Control Commission
 (levels not to exceed allowable threshold noted or background levels - MW #1 serves as background data when applicable)
 - 2) Depth to Water measured from top of well casing
 - 3) TDS - Total Dissolved Solids
 - 4) mg/L - Milligrams per liter
 - 5) µmhos - Micro ohms
 - 6) NMWQCC pH allowable range between 6-9
 - 7) µg/L - Micrograms per liter
 - 8) (-) - Not analyzed

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

FIGURE 1



BPX ENERGY INC.

GCU COM H # 180

NW/4 SE/4 SEC. 28, T29N, R12W

SAN JUAN COUNTY, NEW MEXICO

COTTONWOOD CONSULTING, LLC
 ENVIRONMENTAL CONSULTING
 P.O. BOX 1653
 DURANGO, COLORADO 81302

PHONE: (970) 764-7356

PROJECT: REMEDIATION

DRAWN BY: NJV

FILENAME: GCU COM H 180 FIG 1 (2020-12).SKF

REVISED: 01-15-2021

**SITE
MAP**

DECEMBER 2020

Top of Well Elevation

MW #101 (100.00)
 MW #102 (99.02)
 MW #103 (99.51)
 MW #104 (99.45)
 MW #105

MW #101 (91.98) Groundwater Elevation as of 10/14/2020.

FIGURE 2 (3rd 1/4, 2020)



Former
95 bbl BGT
Location

08/27/20	10/14/20
B - ND	B - 19
T - 17	T - 1300
E - 5.4	E - 96
X - 11	X - 1900

MW #102
(91.88)

AS-1 ●

91.83

~S38.75W

91.93

MW #101
(91.98)

91.73

MW #103
(91.85)

08/27/20	10/14/20
B - ND	B - ND
T - ND	T - 5.5
E - 73	E - 59
X - 220	X - 450

AS-3 ●

08/27/20	10/14/20
B - ND	B - 20
T - ND	T - ND
E - ND	E - ND
X - ND	X - 49

MW #104
(91.65)

AS-2 ●

APPARENT
GROUNDWATER
FLOW DIRECTION
~S40W

gradient ~0.29 ft.
per 100 lateral ft.

PERIMETER
SECURITY
FENCE

MW #105

08/27/20	10/14/20
B - ND	B - ND
T - ND	T - ND
E - ND	E - ND
X - ND	X - ND

AS-4 ●

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

0 25 50 FT.

BPX ENERGY INC.

GCU COM H # 180

NW/4 SE/4 SEC. 28, T29N, R12W

SAN JUAN COUNTY, NEW MEXICO

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 ENVIRONMENTAL CONSULTING
 P.O. BOX 1653
 DURANGO, COLORADO 81302

PHONE: (970) 764-7356

PROJECT: REMEDIATION

DRAWN BY: NJV

FILENAME: GCU COM H 180 GW FIG 2 (2020-10).SKF

REVISED: 01-15-2021

**GROUNDWATER
CONTOUR
MAP**

OCTOBER 2020

FIGURE 3 (4th 1/4, 2020)



Top of Well Elevation	
MW #101	(100.00)
MW #102	(99.02)
MW #103	(99.51)
MW #104	(99.45)
MW #105	
Groundwater Elevation as of 12/18/2020.	
MW #101	(91.84)

Former
95 bbl BGT
Location

10/14/20	12/18/20
B - 19	B - <5
T - 1300	T - 2.0
E - 96	E - 2.5
X - 1900	X - 6100

MW #102
(91.69)

~S49.5W

MW #101
(91.84)

AS-1 ●

MW #103
(91.68)

AS-3 ●

10/14/20	12/18/20
B - 20	B - 6
T - ND	T - ND
E - ND	E - ND
X - 49	X - 2.7

MW #104
(91.43)

AS-2 ●

10/14/20	12/18/20
B - ND	B - 0.6
T - 5.5	T - 1.2
E - 59	E - 39
X - 450	X - 250

PERIMETER
SECURITY
FENCE

APPARENT
GROUNDWATER
FLOW DIRECTION
~S49.5W

gradient ~0.32 ft.
per 100 lateral ft.

AS-4 ●

10/14/20	12/18/20
B - ND	B - ND
T - ND	T - ND
E - ND	E - ND
X - ND	X - ND

MW #105

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

0 25 50 FT.

SIMCOE LLC

GCU COM H # 180

NW/4 SE/4 SEC. 28, T29N, R12W

SAN JUAN COUNTY, NEW MEXICO

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DURANGO, COLORADO 81302

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PROJECT: REMEDIATION

DRAWN BY: NJV

FILENAME: GCU COM H 180 GW FIG 3 (2020-12).SKF

REVISED: 01-15-2021

GROUNDWATER
CONTOUR
MAP
DECEMBER 2020

COTTONWOOD CONSULTING LLC

MONITOR / TEST WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **BPX ENERGY INC.**

CHAIN-OF-CUSTODY # :

N / A

GCU Com H # 180 Incident #: nAUTOFWCO00224 UNIT J, SEC. 28, T29N, R12W

LABORATORY (S) USED :

HALL ENVIRONMENTAL

Date : August 27, 2020

DEVELOPER / SAMPLER : N J V

Filename : GCU Com H 180 mw log 2020-08-27.xls

PROJECT MANAGER : S. MOSKAL/E. DUNMAN

Sample ID	WELL ELEV. (feet)	WATER ELEV. (feet)	DEPTH TO WATER (feet)	WELL TOTAL LENGTH (feet)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
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MW #101	100.00	92.03	7.97	11.65	-	-	-	-	-
MW #102	99.02	92.04	6.98	12.58	1040	7.10	1,900	22.5	2.75
MW #103	99.51	92.03	7.48	12.58	1000	7.11	2,100	21.5	2.50
MW #104	99.45	91.86	7.59	12.20	1120	7.17	2,400	23.3	2.25
MW #105	-	-	6.70	12.00	0920	7.23	1,600	22.3	2.75

INSTRUMENT CALIBRATIONS =

4.01/7.00/10.00	2,800
08/27/20	0800

DATE & TIME =

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gal. / ft. of water.

Comments or note well diameter if not standard 2".

Monitor well MW # 105 installed 03/11/2020 & initially developed 03/24/2020. Used new disposable bailers for each monitor well purged & sampled. Collected samples after purging a minimum of 3 well bore volumes. All wells except MW #101 sampled for BTEX per US EPA Method 8260B with purged water transferred to on-site 95 bbl above-grade tank.

NMOCD - Admin./Environ. Order #: 3RP-379; API #: 3004507814

MW #101 - 224 ft., N51E; MW #102 - 182 ft., N34E; MW #103 - 172.3 ft., N48E; MW #104 - 107.5 ft., N19.5E; all from P&A marker.

Top of casing: MW #101 ~ 2.10 ft., MW #102 ~ 2.63 ft., MW #103 ~ 2.80 ft., MW #104 ~ 2.33 ft., MW #105 ~ 2.35 ft. below grade.

on-site	8:45 AM	temp	73 F
off-site	11:30 AM	temp	83 F
sky cond.	Mostly sunny		
wind speed	0 - 5	direct.	E -SE

COTTONWOOD CONSULTING LLC

MONITOR / TEST WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **BPX ENERGY INC.**

CHAIN-OF-CUSTODY # :

N / A

GCU Com H # 180 Incident #: nAUTOFWCO00224 UNIT J, SEC. 28, T29N, R12W

LABORATORY (S) USED :

HALL ENVIRONMENTAL

Date : October 14, 2020

DEVELOPER / SAMPLER : N J V

Filename : GCU Com H 180 mw log 2020-10-14.xls

PROJECT MANAGER : S. MOSKAL/E. DUNMAN

Sample ID	WELL ELEV. (feet)	WATER ELEV. (feet)	DEPTH TO WATER (feet)	WELL TOTAL LENGTH (feet)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
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MW #101	100.00	91.98	8.02	11.65	-	-	-	-	-
MW #102	99.02	91.88	7.14	12.58	1050	7.22	3,800	19.2	2.75
MW #103	99.51	91.85	7.66	12.58	1020	7.24	4,400	19.1	2.50
MW #104	99.45	91.65	7.80	12.20	1120	7.15	4,700	21.0	2.25
MW #105	-	-	6.91	12.00	0930	7.41	4,100	17.7	2.50

INSTRUMENT CALIBRATIONS =

4.01/7.00/10.00	2,800
10/14/20	0700

DATE & TIME =

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes: 2.00 " well diameter = 0.49 gal. / ft. of water.

Comments or note well diameter if not standard 2".

Monitor well MW # 105 installed 03/11/2020 & initially developed 03/24/2020. Used new disposable bailers for each monitor well purged & sampled. Collected samples after purging a minimum of 3 well bore volumes. All wells except MW #101 sampled for BTEX per US EPA Method 8260B with purged water transferred to on-site 95 bbl above-grade tank.

NMOCD - Admin./Environ. Order #: 3RP-379; API #: 3004507814

MW #101 - 224 ft., N51E; MW #102 - 182 ft., N34E; MW #103 - 172.3 ft., N48E; MW #104 - 107.5 ft., N19.5E; all from P&A marker.

Top of casing: MW #101 ~ 2.10 ft., MW #102 ~ 2.63 ft., MW #103 ~ 2.80 ft., MW #104 ~ 2.33 ft., MW #105 ~ 2.35 ft. below grade.

on-site	8:30 AM	temp	43 F
off-site	11:40 AM	temp	65 F
sky cond.	Sunny		
wind speed	Calm	direct.	NA

COTTONWOOD CONSULTING LLC

MONITOR / TEST WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **SIMCOE LLC**

CHAIN-OF-CUSTODY # :

N / A

GCU Com H # 180 Incident #: nAUTOFWCO00224 UNIT J, SEC. 28, T29N, R12W

LABORATORY (S) USED :

HALL ENVIRONMENTAL

Date : December 18, 2020

DEVELOPER / SAMPLER : N J V

Filename : GCU Com H 180 mw log 2020-12-18.xls

PROJECT MANAGER : S. MOSKAL/E. DUNMAN

Sample ID	WELL ELEV. (feet)	WATER ELEV. (feet)	DEPTH TO WATER (feet)	WELL TOTAL LENGTH (feet)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW #101	100.00	91.84	8.16	11.65	0830	7.51	3,700	13.4	1.75
MW #102	99.02	91.69	7.33	12.58	1130	7.33	4,000	12.9	2.50
MW #103	99.51	91.68	7.83	12.58	1000	7.25	4,000	12.2	2.50
MW #104	99.45	91.43	8.02	12.20	1045	7.31	4,100	14.3	2.25
MW #105	-	-	7.16	12.00	0915	7.49	4,000	12.2	2.50

INSTRUMENT CALIBRATIONS =

4.01/7.00/10.00	2,800
12/15/20	0700

DATE & TIME =

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

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Comments or note well diameter if not standard 2".

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NMOCD - Admin./Environ. Order #: 3RP-379; API #: 3004507814

MW #101 - 224 ft., N51E; MW #102 - 182 ft., N34E; MW #103 - 172.3 ft., N48E; MW #104 - 107.5 ft., N19.5E; all from P&A marker.

Top of casing: MW #101 ~ 2.10 ft., MW #102 ~ 2.63 ft., MW #103 ~ 2.80 ft., MW #104 ~ 2.33 ft., MW #105 ~ 2.35 ft. below grade.

on-site	7:30 AM	temp	25 F
off-site	11:45 AM	temp	38 F
sky cond.	Mostly cloudy		
wind speed	0 - 10	direct.	SSW - W

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #102

Project: GCU Com H 180

Collection Date: 8/27/2020 10:40:00 AM

Lab ID: 2008G07-001

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Toluene	17	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Ethylbenzene	5.4	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2,4-Trimethylbenzene	5.6	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Naphthalene	ND	10	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
2-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Acetone	ND	50	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Bromobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Bromodichloromethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Bromoform	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Bromomethane	ND	15	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
2-Butanone	ND	50	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Carbon disulfide	ND	50	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Carbon Tetrachloride	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Chlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Chloroethane	ND	10	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Chloroform	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Chloromethane	ND	15	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
2-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
4-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
cis-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Dibromochloromethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Dibromomethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,1-Dichloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,1-Dichloroethene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,3-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
2,2-Dichloropropane	ND	10	D	µg/L	5	8/30/2020 6:25:24 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #102

Project: GCU Com H 180

Collection Date: 8/27/2020 10:40:00 AM

Lab ID: 2008G07-001

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Hexachlorobutadiene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
2-Hexanone	ND	50	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Isopropylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
4-Isopropyltoluene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
4-Methyl-2-pentanone	ND	50	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Methylene Chloride	ND	15	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
n-Butylbenzene	ND	15	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
n-Propylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
sec-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Styrene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
tert-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
trans-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Trichlorofluoromethane	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
1,2,3-Trichloropropane	ND	10	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Vinyl chloride	ND	5.0	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Xylenes, Total	11	7.5	D	µg/L	5	8/30/2020 6:25:24 PM	R71485
Surr: 1,2-Dichloroethane-d4	85.5	70-130	D	%Rec	5	8/30/2020 6:25:24 PM	R71485
Surr: 4-Bromofluorobenzene	88.8	70-130	D	%Rec	5	8/30/2020 6:25:24 PM	R71485
Surr: Dibromofluoromethane	87.1	70-130	D	%Rec	5	8/30/2020 6:25:24 PM	R71485
Surr: Toluene-d8	104	70-130	D	%Rec	5	8/30/2020 6:25:24 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #103

Project: GCU Com H 180

Collection Date: 8/27/2020 10:00:00 AM

Lab ID: 2008G07-002

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Toluene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Ethylbenzene	73	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2,4-Trimethylbenzene	46	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Naphthalene	ND	10	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
2-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Acetone	ND	50	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Bromobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Bromodichloromethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Bromoform	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Bromomethane	ND	15	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
2-Butanone	ND	50	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Carbon disulfide	ND	50	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Carbon Tetrachloride	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Chlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Chloroethane	ND	10	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Chloroform	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Chloromethane	ND	15	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
2-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
4-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
cis-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Dibromochloromethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Dibromomethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,1-Dichloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,1-Dichloroethene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,3-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
2,2-Dichloropropane	ND	10	D	µg/L	5	8/30/2020 6:55:05 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #103

Project: GCU Com H 180

Collection Date: 8/27/2020 10:00:00 AM

Lab ID: 2008G07-002

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Hexachlorobutadiene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
2-Hexanone	ND	50	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Isopropylbenzene	18	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
4-Isopropyltoluene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
4-Methyl-2-pentanone	ND	50	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Methylene Chloride	ND	15	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
n-Butylbenzene	ND	15	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
n-Propylbenzene	13	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
sec-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Styrene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
tert-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
trans-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Trichlorofluoromethane	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
1,2,3-Trichloropropane	ND	10	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Vinyl chloride	ND	5.0	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Xylenes, Total	220	7.5	D	µg/L	5	8/30/2020 6:55:05 PM	R71485
Surr: 1,2-Dichloroethane-d4	87.7	70-130	D	%Rec	5	8/30/2020 6:55:05 PM	R71485
Surr: 4-Bromofluorobenzene	87.9	70-130	D	%Rec	5	8/30/2020 6:55:05 PM	R71485
Surr: Dibromofluoromethane	85.2	70-130	D	%Rec	5	8/30/2020 6:55:05 PM	R71485
Surr: Toluene-d8	99.0	70-130	D	%Rec	5	8/30/2020 6:55:05 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #104

Project: GCU Com H 180

Collection Date: 8/27/2020 11:20:00 AM

Lab ID: 2008G07-003

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Toluene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Ethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Naphthalene	ND	10	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
2-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Acetone	ND	50	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Bromobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Bromodichloromethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Bromoform	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Bromomethane	ND	15	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
2-Butanone	ND	50	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Carbon disulfide	ND	50	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Carbon Tetrachloride	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Chlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Chloroethane	ND	10	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Chloroform	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Chloromethane	ND	15	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
2-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
4-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
cis-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Dibromochloromethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Dibromomethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,1-Dichloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,1-Dichloroethene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,3-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
2,2-Dichloropropane	ND	10	D	µg/L	5	8/30/2020 7:24:39 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #104

Project: GCU Com H 180

Collection Date: 8/27/2020 11:20:00 AM

Lab ID: 2008G07-003

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Hexachlorobutadiene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
2-Hexanone	ND	50	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Isopropylbenzene	9.6	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
4-Isopropyltoluene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
4-Methyl-2-pentanone	ND	50	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Methylene Chloride	ND	15	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
n-Butylbenzene	ND	15	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
n-Propylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
sec-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Styrene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
tert-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
trans-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Trichlorofluoromethane	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
1,2,3-Trichloropropane	ND	10	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Vinyl chloride	ND	5.0	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Xylenes, Total	ND	7.5	D	µg/L	5	8/30/2020 7:24:39 PM	R71485
Surr: 1,2-Dichloroethane-d4	101	70-130	D	%Rec	5	8/30/2020 7:24:39 PM	R71485
Surr: 4-Bromofluorobenzene	95.5	70-130	D	%Rec	5	8/30/2020 7:24:39 PM	R71485
Surr: Dibromofluoromethane	97.7	70-130	D	%Rec	5	8/30/2020 7:24:39 PM	R71485
Surr: Toluene-d8	98.5	70-130	D	%Rec	5	8/30/2020 7:24:39 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #105

Project: GCU Com H 180

Collection Date: 8/27/2020 9:20:00 AM

Lab ID: 2008G07-004

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Toluene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Ethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Naphthalene	ND	10	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
2-Methylnaphthalene	ND	20	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Acetone	ND	50	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Bromobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Bromodichloromethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Bromoform	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Bromomethane	ND	15	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
2-Butanone	ND	50	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Carbon disulfide	ND	50	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Carbon Tetrachloride	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Chlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Chloroethane	ND	10	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Chloroform	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Chloromethane	ND	15	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
2-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
4-Chlorotoluene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
cis-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Dibromochloromethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Dibromomethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,1-Dichloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,1-Dichloroethene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,3-Dichloropropane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
2,2-Dichloropropane	ND	10	D	µg/L	5	8/30/2020 7:54:14 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2008G07

Date Reported: 9/2/2020

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #105

Project: GCU Com H 180

Collection Date: 8/27/2020 9:20:00 AM

Lab ID: 2008G07-004

Matrix: AQUEOUS

Received Date: 8/28/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Hexachlorobutadiene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
2-Hexanone	ND	50	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Isopropylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
4-Isopropyltoluene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
4-Methyl-2-pentanone	ND	50	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Methylene Chloride	ND	15	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
n-Butylbenzene	ND	15	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
n-Propylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
sec-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Styrene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
tert-Butylbenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
trans-1,2-DCE	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Trichlorofluoromethane	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
1,2,3-Trichloropropane	ND	10	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Vinyl chloride	ND	5.0	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Xylenes, Total	ND	7.5	D	µg/L	5	8/30/2020 7:54:14 PM	R71485
Surr: 1,2-Dichloroethane-d4	104	70-130	D	%Rec	5	8/30/2020 7:54:14 PM	R71485
Surr: 4-Bromofluorobenzene	95.9	70-130	D	%Rec	5	8/30/2020 7:54:14 PM	R71485
Surr: Dibromofluoromethane	99.2	70-130	D	%Rec	5	8/30/2020 7:54:14 PM	R71485
Surr: Toluene-d8	102	70-130	D	%Rec	5	8/30/2020 7:54:14 PM	R71485

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 102

Project: GCU Com H 180

Collection Date: 10/14/2020 10:50:00 AM

Lab ID: 2010743-001

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	19	5.0		µg/L	5	10/17/2020 7:31:00 PM
Toluene	1300	50		µg/L	50	10/18/2020 2:55:00 PM
Ethylbenzene	96	5.0		µg/L	5	10/17/2020 7:31:00 PM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2,4-Trimethylbenzene	140	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,3,5-Trimethylbenzene	59	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Naphthalene	11	10		µg/L	5	10/17/2020 7:31:00 PM
1-Methylnaphthalene	ND	20		µg/L	5	10/17/2020 7:31:00 PM
2-Methylnaphthalene	ND	20		µg/L	5	10/17/2020 7:31:00 PM
Acetone	ND	50		µg/L	5	10/17/2020 7:31:00 PM
Bromobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Bromodichloromethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Bromoform	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Bromomethane	ND	15		µg/L	5	10/17/2020 7:31:00 PM
2-Butanone	ND	50		µg/L	5	10/17/2020 7:31:00 PM
Carbon disulfide	ND	50		µg/L	5	10/17/2020 7:31:00 PM
Carbon Tetrachloride	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Chlorobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Chloroethane	ND	10		µg/L	5	10/17/2020 7:31:00 PM
Chloroform	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Chloromethane	ND	15		µg/L	5	10/17/2020 7:31:00 PM
2-Chlorotoluene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
4-Chlorotoluene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
cis-1,2-DCE	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	10/17/2020 7:31:00 PM
Dibromochloromethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Dibromomethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Dichlorodifluoromethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,3-Dichloropropane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
2,2-Dichloropropane	ND	10		µg/L	5	10/17/2020 7:31:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 102

Project: GCU Com H 180

Collection Date: 10/14/2020 10:50:00 AM

Lab ID: 2010743-001

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,1-Dichloropropene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Hexachlorobutadiene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
2-Hexanone	ND	50		µg/L	5	10/17/2020 7:31:00 PM
Isopropylbenzene	13	5.0		µg/L	5	10/17/2020 7:31:00 PM
4-Isopropyltoluene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	10/17/2020 7:31:00 PM
Methylene Chloride	ND	15		µg/L	5	10/17/2020 7:31:00 PM
n-Butylbenzene	ND	15		µg/L	5	10/17/2020 7:31:00 PM
n-Propylbenzene	13	5.0		µg/L	5	10/17/2020 7:31:00 PM
sec-Butylbenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Styrene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
tert-Butylbenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	10/17/2020 7:31:00 PM
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
trans-1,2-DCE	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Trichloroethene (TCE)	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
1,2,3-Trichloropropane	ND	10		µg/L	5	10/17/2020 7:31:00 PM
Vinyl chloride	ND	5.0		µg/L	5	10/17/2020 7:31:00 PM
Xylenes, Total	1900	75		µg/L	50	10/18/2020 2:55:00 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	5	10/17/2020 7:31:00 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	5	10/17/2020 7:31:00 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	5	10/17/2020 7:31:00 PM
Surr: Toluene-d8	106	70-130		%Rec	5	10/17/2020 7:31:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 103

Project: GCU Com H 180

Collection Date: 10/14/2020 10:20:00 AM

Lab ID: 2010743-002

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Toluene	5.5	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Ethylbenzene	59	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2,4-Trimethylbenzene	75	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Naphthalene	ND	10	D	µg/L	5	10/17/2020 7:55:00 PM
1-Methylnaphthalene	ND	20	D	µg/L	5	10/17/2020 7:55:00 PM
2-Methylnaphthalene	ND	20	D	µg/L	5	10/17/2020 7:55:00 PM
Acetone	ND	50	D	µg/L	5	10/17/2020 7:55:00 PM
Bromobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Bromodichloromethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Bromoform	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Bromomethane	ND	15	D	µg/L	5	10/17/2020 7:55:00 PM
2-Butanone	ND	50	D	µg/L	5	10/17/2020 7:55:00 PM
Carbon disulfide	ND	50	D	µg/L	5	10/17/2020 7:55:00 PM
Carbon Tetrachloride	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Chlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Chloroethane	ND	10	D	µg/L	5	10/17/2020 7:55:00 PM
Chloroform	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Chloromethane	ND	15	D	µg/L	5	10/17/2020 7:55:00 PM
2-Chlorotoluene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
4-Chlorotoluene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
cis-1,2-DCE	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	10/17/2020 7:55:00 PM
Dibromochloromethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Dibromomethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,1-Dichloroethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,1-Dichloroethene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2-Dichloropropane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,3-Dichloropropane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
2,2-Dichloropropane	ND	10	D	µg/L	5	10/17/2020 7:55:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 103

Project: GCU Com H 180

Collection Date: 10/14/2020 10:20:00 AM

Lab ID: 2010743-002

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,1-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Hexachlorobutadiene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
2-Hexanone	ND	50	D	µg/L	5	10/17/2020 7:55:00 PM
Isopropylbenzene	14	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
4-Isopropyltoluene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
4-Methyl-2-pentanone	ND	50	D	µg/L	5	10/17/2020 7:55:00 PM
Methylene Chloride	ND	15	D	µg/L	5	10/17/2020 7:55:00 PM
n-Butylbenzene	ND	15	D	µg/L	5	10/17/2020 7:55:00 PM
n-Propylbenzene	9.9	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
sec-Butylbenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Styrene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
tert-Butylbenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	10/17/2020 7:55:00 PM
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
trans-1,2-DCE	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Trichlorofluoromethane	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
1,2,3-Trichloropropane	ND	10	D	µg/L	5	10/17/2020 7:55:00 PM
Vinyl chloride	ND	5.0	D	µg/L	5	10/17/2020 7:55:00 PM
Xylenes, Total	450	7.5	D	µg/L	5	10/17/2020 7:55:00 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130	D	%Rec	5	10/17/2020 7:55:00 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	D	%Rec	5	10/17/2020 7:55:00 PM
Surr: Dibromofluoromethane	109	70-130	D	%Rec	5	10/17/2020 7:55:00 PM
Surr: Toluene-d8	104	70-130	D	%Rec	5	10/17/2020 7:55:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 104

Project: GCU Com H 180

Collection Date: 10/14/2020 11:20:00 AM

Lab ID: 2010743-003

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	20	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Toluene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Ethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Naphthalene	ND	10	D	µg/L	5	10/17/2020 8:19:00 PM
1-Methylnaphthalene	ND	20	D	µg/L	5	10/17/2020 8:19:00 PM
2-Methylnaphthalene	ND	20	D	µg/L	5	10/17/2020 8:19:00 PM
Acetone	ND	50	D	µg/L	5	10/17/2020 8:19:00 PM
Bromobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Bromodichloromethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Bromoform	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Bromomethane	ND	15	D	µg/L	5	10/17/2020 8:19:00 PM
2-Butanone	ND	50	D	µg/L	5	10/17/2020 8:19:00 PM
Carbon disulfide	ND	50	D	µg/L	5	10/17/2020 8:19:00 PM
Carbon Tetrachloride	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Chlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Chloroethane	ND	10	D	µg/L	5	10/17/2020 8:19:00 PM
Chloroform	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Chloromethane	ND	15	D	µg/L	5	10/17/2020 8:19:00 PM
2-Chlorotoluene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
4-Chlorotoluene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
cis-1,2-DCE	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	10/17/2020 8:19:00 PM
Dibromochloromethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Dibromomethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,1-Dichloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,1-Dichloroethene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2-Dichloropropane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,3-Dichloropropane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
2,2-Dichloropropane	ND	10	D	µg/L	5	10/17/2020 8:19:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 104

Project: GCU Com H 180

Collection Date: 10/14/2020 11:20:00 AM

Lab ID: 2010743-003

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,1-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Hexachlorobutadiene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
2-Hexanone	ND	50	D	µg/L	5	10/17/2020 8:19:00 PM
Isopropylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
4-Isopropyltoluene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
4-Methyl-2-pentanone	ND	50	D	µg/L	5	10/17/2020 8:19:00 PM
Methylene Chloride	ND	15	D	µg/L	5	10/17/2020 8:19:00 PM
n-Butylbenzene	ND	15	D	µg/L	5	10/17/2020 8:19:00 PM
n-Propylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
sec-Butylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Styrene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
tert-Butylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	10/17/2020 8:19:00 PM
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
trans-1,2-DCE	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Trichlorofluoromethane	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
1,2,3-Trichloropropane	ND	10	D	µg/L	5	10/17/2020 8:19:00 PM
Vinyl chloride	ND	5.0	D	µg/L	5	10/17/2020 8:19:00 PM
Xylenes, Total	49	7.5	D	µg/L	5	10/17/2020 8:19:00 PM
Surr: 1,2-Dichloroethane-d4	95.2	70-130	D	%Rec	5	10/17/2020 8:19:00 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	D	%Rec	5	10/17/2020 8:19:00 PM
Surr: Dibromofluoromethane	110	70-130	D	%Rec	5	10/17/2020 8:19:00 PM
Surr: Toluene-d8	98.7	70-130	D	%Rec	5	10/17/2020 8:19:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 105

Project: GCU Com H 180

Collection Date: 10/14/2020 9:30:00 AM

Lab ID: 2010743-004

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
Benzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Toluene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Ethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Naphthalene	ND	10	D	µg/L	5	10/17/2020 8:43:00 PM
1-Methylnaphthalene	ND	20	D	µg/L	5	10/17/2020 8:43:00 PM
2-Methylnaphthalene	ND	20	D	µg/L	5	10/17/2020 8:43:00 PM
Acetone	ND	50	D	µg/L	5	10/17/2020 8:43:00 PM
Bromobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Bromodichloromethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Bromoform	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Bromomethane	ND	15	D	µg/L	5	10/17/2020 8:43:00 PM
2-Butanone	ND	50	D	µg/L	5	10/17/2020 8:43:00 PM
Carbon disulfide	ND	50	D	µg/L	5	10/17/2020 8:43:00 PM
Carbon Tetrachloride	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Chlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Chloroethane	ND	10	D	µg/L	5	10/17/2020 8:43:00 PM
Chloroform	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Chloromethane	ND	15	D	µg/L	5	10/17/2020 8:43:00 PM
2-Chlorotoluene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
4-Chlorotoluene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
cis-1,2-DCE	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	10/17/2020 8:43:00 PM
Dibromochloromethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Dibromomethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,1-Dichloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,1-Dichloroethene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2-Dichloropropane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,3-Dichloropropane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
2,2-Dichloropropane	ND	10	D	µg/L	5	10/17/2020 8:43:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2010743

Date Reported: 10/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW 105

Project: GCU Com H 180

Collection Date: 10/14/2020 9:30:00 AM

Lab ID: 2010743-004

Matrix: AQUEOUS

Received Date: 10/15/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: CCM
1,1-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Hexachlorobutadiene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
2-Hexanone	ND	50	D	µg/L	5	10/17/2020 8:43:00 PM
Isopropylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
4-Isopropyltoluene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
4-Methyl-2-pentanone	ND	50	D	µg/L	5	10/17/2020 8:43:00 PM
Methylene Chloride	ND	15	D	µg/L	5	10/17/2020 8:43:00 PM
n-Butylbenzene	ND	15	D	µg/L	5	10/17/2020 8:43:00 PM
n-Propylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
sec-Butylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Styrene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
tert-Butylbenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	10/17/2020 8:43:00 PM
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
trans-1,2-DCE	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Trichlorofluoromethane	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
1,2,3-Trichloropropane	ND	10	D	µg/L	5	10/17/2020 8:43:00 PM
Vinyl chloride	ND	5.0	D	µg/L	5	10/17/2020 8:43:00 PM
Xylenes, Total	ND	7.5	D	µg/L	5	10/17/2020 8:43:00 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130	D	%Rec	5	10/17/2020 8:43:00 PM
Surr: 4-Bromofluorobenzene	94.4	70-130	D	%Rec	5	10/17/2020 8:43:00 PM
Surr: Dibromofluoromethane	106	70-130	D	%Rec	5	10/17/2020 8:43:00 PM
Surr: Toluene-d8	100	70-130	D	%Rec	5	10/17/2020 8:43:00 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #101

Project: GCU Com H 180

Collection Date: 12/18/2020 8:30:00 AM

Lab ID: 2012A18-001

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	ND	0.50		mg/L	5	12/21/2020 12:47:16 PM
Chloride	110	10		mg/L	20	12/21/2020 12:59:36 PM
Nitrogen, Nitrate (As N)	ND	0.50	H	mg/L	5	12/21/2020 12:47:16 PM
Sulfate	2500	50	*	mg/L	100	12/22/2020 8:52:18 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Iron	0.042	0.020		mg/L	1	12/29/2020 10:50:00 AM
Manganese	4.4	0.010	*	mg/L	5	12/29/2020 10:52:23 AM
EPA 200.8: DISSOLVED METALS						Analyst: ELS
Lead	ND	0.0025		mg/L	5	12/29/2020 12:08:23 PM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.86		H	pH units	1	12/23/2020 6:26:40 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MH
Total Dissolved Solids	4370	40.0	*D	mg/L	1	12/23/2020 11:43:00 AM

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #102

Project: GCU Com H 180

Collection Date: 12/18/2020 11:30:00 AM

Lab ID: 2012A18-002

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.66	0.50		mg/L	5	12/21/2020 1:11:57 PM
Chloride	120	10		mg/L	20	12/21/2020 1:24:18 PM
Nitrogen, Nitrate (As N)	ND	0.50	H	mg/L	5	12/21/2020 1:11:57 PM
Sulfate	3000	50	*	mg/L	100	12/22/2020 9:04:39 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Iron	1.4	0.10	*	mg/L	5	12/29/2020 10:56:48 AM
Manganese	5.5	0.020	*	mg/L	10	12/29/2020 12:03:19 PM
EPA 200.8: DISSOLVED METALS						Analyst: ELS
Lead	ND	0.00050		mg/L	1	12/29/2020 11:37:10 AM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Toluene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Ethylbenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2,4-Trimethylbenzene	1300	50		µg/L	50	12/25/2020 7:46:47 AM
1,3,5-Trimethylbenzene	540	50		µg/L	50	12/25/2020 7:46:47 AM
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Naphthalene	92	10		µg/L	5	12/25/2020 8:15:23 AM
1-Methylnaphthalene	ND	20		µg/L	5	12/25/2020 8:15:23 AM
2-Methylnaphthalene	22	20		µg/L	5	12/25/2020 8:15:23 AM
Acetone	ND	50		µg/L	5	12/25/2020 8:15:23 AM
Bromobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Bromodichloromethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Bromoform	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Bromomethane	ND	15		µg/L	5	12/25/2020 8:15:23 AM
2-Butanone	ND	50		µg/L	5	12/25/2020 8:15:23 AM
Carbon disulfide	ND	50		µg/L	5	12/25/2020 8:15:23 AM
Carbon Tetrachloride	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Chlorobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Chloroethane	ND	10		µg/L	5	12/25/2020 8:15:23 AM
Chloroform	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Chloromethane	ND	15		µg/L	5	12/25/2020 8:15:23 AM
2-Chlorotoluene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
4-Chlorotoluene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
cis-1,2-DCE	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	12/25/2020 8:15:23 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #102

Project: GCU Com H 180

Collection Date: 12/18/2020 11:30:00 AM

Lab ID: 2012A18-002

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromochloromethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Dibromomethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Dichlorodifluoromethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,1-Dichloroethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,1-Dichloroethene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2-Dichloropropane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,3-Dichloropropane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
2,2-Dichloropropane	ND	10		µg/L	5	12/25/2020 8:15:23 AM
1,1-Dichloropropene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Hexachlorobutadiene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
2-Hexanone	ND	50		µg/L	5	12/25/2020 8:15:23 AM
Isopropylbenzene	6.2	5.0		µg/L	5	12/25/2020 8:15:23 AM
4-Isopropyltoluene	34	5.0		µg/L	5	12/25/2020 8:15:23 AM
4-Methyl-2-pentanone	ND	50		µg/L	5	12/25/2020 8:15:23 AM
Methylene Chloride	ND	15		µg/L	5	12/25/2020 8:15:23 AM
n-Butylbenzene	ND	15		µg/L	5	12/25/2020 8:15:23 AM
n-Propylbenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
sec-Butylbenzene	8.5	5.0		µg/L	5	12/25/2020 8:15:23 AM
Styrene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
tert-Butylbenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	5	12/25/2020 8:15:23 AM
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
trans-1,2-DCE	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Trichloroethene (TCE)	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Trichlorofluoromethane	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
1,2,3-Trichloropropane	ND	10		µg/L	5	12/25/2020 8:15:23 AM
Vinyl chloride	ND	5.0		µg/L	5	12/25/2020 8:15:23 AM
Xylenes, Total	6100	75		µg/L	50	12/25/2020 7:46:47 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	5	12/25/2020 8:15:23 AM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	5	12/25/2020 8:15:23 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2012A18
Date Reported: 1/8/2021

CLIENT: SIMCOE/Cottonwood Consulting Client Sample ID: MW #102
Project: GCU Com H 180 Collection Date: 12/18/2020 11:30:00 AM
Lab ID: 2012A18-002 Matrix: AQUEOUS Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: Dibromofluoromethane	84.0	70-130		%Rec	5	12/25/2020 8:15:23 AM
Surr: Toluene-d8	98.2	70-130		%Rec	5	12/25/2020 8:15:23 AM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.67		H	pH units	1	12/23/2020 6:30:56 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MH
Total Dissolved Solids	4840	40.0	*D	mg/L	1	12/23/2020 11:43:00 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #103

Project: GCU Com H 180

Collection Date: 12/18/2020 10:00:00 AM

Lab ID: 2012A18-003

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.56	0.50		mg/L	5	12/21/2020 1:36:38 PM
Chloride	100	10		mg/L	20	12/21/2020 1:48:58 PM
Nitrogen, Nitrate (As N)	ND	0.50	H	mg/L	5	12/21/2020 1:36:38 PM
Sulfate	2700	50	*	mg/L	100	12/22/2020 9:17:00 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Iron	0.031	0.020		mg/L	1	12/29/2020 10:59:05 AM
Manganese	8.5	0.020	*	mg/L	10	12/29/2020 12:12:45 PM
EPA 200.8: DISSOLVED METALS						Analyst: ELS
Lead	ND	0.0025		mg/L	5	12/29/2020 12:13:33 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Toluene	1.2	1.0		µg/L	1	12/25/2020 8:43:57 AM
Ethylbenzene	39	1.0		µg/L	1	12/25/2020 8:43:57 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2,4-Trimethylbenzene	46	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,3,5-Trimethylbenzene	6.8	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Naphthalene	ND	2.0		µg/L	1	12/25/2020 8:43:57 AM
1-Methylnaphthalene	5.0	4.0		µg/L	1	12/25/2020 8:43:57 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2020 8:43:57 AM
Acetone	ND	10		µg/L	1	12/25/2020 8:43:57 AM
Bromobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Bromoform	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Bromomethane	ND	3.0		µg/L	1	12/25/2020 8:43:57 AM
2-Butanone	ND	10		µg/L	1	12/25/2020 8:43:57 AM
Carbon disulfide	ND	10		µg/L	1	12/25/2020 8:43:57 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Chlorobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Chloroethane	ND	2.0		µg/L	1	12/25/2020 8:43:57 AM
Chloroform	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Chloromethane	ND	3.0		µg/L	1	12/25/2020 8:43:57 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2020 8:43:57 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #103

Project: GCU Com H 180

Collection Date: 12/18/2020 10:00:00 AM

Lab ID: 2012A18-003

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Dibromomethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2020 8:43:57 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
2-Hexanone	ND	10		µg/L	1	12/25/2020 8:43:57 AM
Isopropylbenzene	9.6	1.0		µg/L	1	12/25/2020 8:43:57 AM
4-Isopropyltoluene	1.8	1.0		µg/L	1	12/25/2020 8:43:57 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2020 8:43:57 AM
Methylene Chloride	ND	3.0		µg/L	1	12/25/2020 8:43:57 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2020 8:43:57 AM
n-Propylbenzene	6.8	1.0		µg/L	1	12/25/2020 8:43:57 AM
sec-Butylbenzene	1.5	1.0		µg/L	1	12/25/2020 8:43:57 AM
Styrene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2020 8:43:57 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2020 8:43:57 AM
Vinyl chloride	ND	1.0		µg/L	1	12/25/2020 8:43:57 AM
Xylenes, Total	250	1.5		µg/L	1	12/25/2020 8:43:57 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/25/2020 8:43:57 AM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	12/25/2020 8:43:57 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #103

Project: GCU Com H 180

Collection Date: 12/18/2020 10:00:00 AM

Lab ID: 2012A18-003

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: Dibromofluoromethane	95.7	70-130		%Rec	1	12/25/2020 8:43:57 AM
Surr: Toluene-d8	96.3	70-130		%Rec	1	12/25/2020 8:43:57 AM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.69		H	pH units	1	12/23/2020 6:35:18 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MH
Total Dissolved Solids	4540	100	*D	mg/L	1	12/23/2020 11:43:00 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #104

Project: GCU Com H 180

Collection Date: 12/18/2020 10:45:00 AM

Lab ID: 2012A18-004

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	0.58	0.50		mg/L	5	12/21/2020 2:26:00 PM
Chloride	110	50		mg/L	100	12/22/2020 9:29:21 PM
Nitrogen, Nitrate (As N)	ND	0.50	H	mg/L	5	12/21/2020 2:26:00 PM
Sulfate	3200	50	*	mg/L	100	12/22/2020 9:29:21 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Iron	0.32	0.020	*	mg/L	1	12/29/2020 11:10:53 AM
Manganese	8.1	0.020	*	mg/L	10	12/29/2020 12:15:16 PM
EPA 200.8: DISSOLVED METALS						Analyst: ELS
Lead	ND	0.0025		mg/L	5	12/29/2020 12:16:09 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	5.5	1.0		µg/L	1	12/25/2020 9:12:38 AM
Toluene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Ethylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Naphthalene	ND	2.0		µg/L	1	12/25/2020 9:12:38 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2020 9:12:38 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2020 9:12:38 AM
Acetone	ND	10		µg/L	1	12/25/2020 9:12:38 AM
Bromobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Bromoform	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Bromomethane	ND	3.0		µg/L	1	12/25/2020 9:12:38 AM
2-Butanone	ND	10		µg/L	1	12/25/2020 9:12:38 AM
Carbon disulfide	ND	10		µg/L	1	12/25/2020 9:12:38 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Chlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Chloroethane	ND	2.0		µg/L	1	12/25/2020 9:12:38 AM
Chloroform	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Chloromethane	ND	3.0		µg/L	1	12/25/2020 9:12:38 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2020 9:12:38 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 8 of 21

Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #104

Project: GCU Com H 180

Collection Date: 12/18/2020 10:45:00 AM

Lab ID: 2012A18-004

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Dibromomethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2020 9:12:38 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
2-Hexanone	ND	10		µg/L	1	12/25/2020 9:12:38 AM
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2020 9:12:38 AM
Methylene Chloride	ND	3.0		µg/L	1	12/25/2020 9:12:38 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2020 9:12:38 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Styrene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2020 9:12:38 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2020 9:12:38 AM
Vinyl chloride	ND	1.0		µg/L	1	12/25/2020 9:12:38 AM
Xylenes, Total	2.7	1.5		µg/L	1	12/25/2020 9:12:38 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/25/2020 9:12:38 AM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	12/25/2020 9:12:38 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2012A18
Date Reported: 1/8/2021

CLIENT: SIMCOE/Cottonwood Consulting Client Sample ID: MW #104
Project: GCU Com H 180 Collection Date: 12/18/2020 10:45:00 AM
Lab ID: 2012A18-004 Matrix: AQUEOUS Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: Dibromofluoromethane	101	70-130		%Rec	1	12/25/2020 9:12:38 AM
Surr: Toluene-d8	96.4	70-130		%Rec	1	12/25/2020 9:12:38 AM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.74		H	pH units	1	12/23/2020 6:39:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MH
Total Dissolved Solids	5320	100	*D	mg/L	1	12/23/2020 11:43:00 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #105

Project: GCU Com H 180

Collection Date: 12/18/2020 9:15:00 AM

Lab ID: 2012A18-005

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Fluoride	ND	0.50		mg/L	5	12/21/2020 2:50:42 PM
Chloride	110	50		mg/L	100	12/22/2020 9:41:42 PM
Nitrogen, Nitrate (As N)	ND	0.50	H	mg/L	5	12/21/2020 2:50:42 PM
Sulfate	3200	50	*	mg/L	100	12/22/2020 9:41:42 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: ELS
Iron	0.39	0.020	*	mg/L	1	12/29/2020 11:15:39 AM
Manganese	7.0	0.020	*	mg/L	10	12/29/2020 12:17:41 PM
EPA 200.8: DISSOLVED METALS						Analyst: ELS
Lead	ND	0.0025		mg/L	5	12/29/2020 12:18:45 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Toluene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Ethylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Naphthalene	ND	2.0		µg/L	1	12/25/2020 9:41:20 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2020 9:41:20 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2020 9:41:20 AM
Acetone	ND	10		µg/L	1	12/25/2020 9:41:20 AM
Bromobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Bromoform	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Bromomethane	ND	3.0		µg/L	1	12/25/2020 9:41:20 AM
2-Butanone	ND	10		µg/L	1	12/25/2020 9:41:20 AM
Carbon disulfide	ND	10		µg/L	1	12/25/2020 9:41:20 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Chlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Chloroethane	ND	2.0		µg/L	1	12/25/2020 9:41:20 AM
Chloroform	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Chloromethane	ND	3.0		µg/L	1	12/25/2020 9:41:20 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2020 9:41:20 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #105

Project: GCU Com H 180

Collection Date: 12/18/2020 9:15:00 AM

Lab ID: 2012A18-005

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Dibromomethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2020 9:41:20 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
2-Hexanone	ND	10		µg/L	1	12/25/2020 9:41:20 AM
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2020 9:41:20 AM
Methylene Chloride	ND	3.0		µg/L	1	12/25/2020 9:41:20 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2020 9:41:20 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Styrene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2020 9:41:20 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2020 9:41:20 AM
Vinyl chloride	ND	1.0		µg/L	1	12/25/2020 9:41:20 AM
Xylenes, Total	ND	1.5		µg/L	1	12/25/2020 9:41:20 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/25/2020 9:41:20 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/25/2020 9:41:20 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 2012A18

Date Reported: 1/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Client Sample ID: MW #105

Project: GCU Com H 180

Collection Date: 12/18/2020 9:15:00 AM

Lab ID: 2012A18-005

Matrix: AQUEOUS

Received Date: 12/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	12/25/2020 9:41:20 AM
Surr: Toluene-d8	97.4	70-130		%Rec	1	12/25/2020 9:41:20 AM
SM4500-H+B / 9040C: PH						Analyst: MH
pH	7.75		H	pH units	1	12/23/2020 6:43:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MH
Total Dissolved Solids	5660	100	*D	mg/L	1	12/23/2020 11:43:00 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Chain-of-Custody Record

Client: SIMCOE LLC / COTTONWOOD CONSULTING

Mailing Address: 1100 MAIN ST.

DURANGO, COLO. 81301

Phone #: (505) 330-9179

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

GCU Com H # 180

Project #:

Project Manager:

Steve Moskal /
Erin Dunman

Sampler:

Nelson Velez

On Ice: ☒ Yes ☐ NoSample Temperature: $4.6 \pm 0 = 4.6$

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 , SO ₄)	pH	Total Dissolved Solids	8260B (VOA)	Dissolved Iron	Dissolved Lead	Dissolved Manganese	Grab sample	Air Bubbles (N or Y)
8/27/20	1040	WATER	MW # 102	40 ml VOA - 2	HCl & Cool	2008G07 001											✓					✓
8/27/20	1000	WATER	MW # 103	40 ml VOA - 2	HCl & Cool	002											✓					✓
8/27/20	1120	WATER	MW # 104	40 ml VOA - 2	HCl & Cool	003											✓					✓
8/27/20	0920	WATER	MW # 105	40 ml VOA - 2	HCl & Cool	004											✓					✓

Date: 8/27/20 Time: 1600 Relinquished by: [Signature]

Received by: [Signature] Date: 8/27/20 Time: 1600

Remarks: BILL DIRECTLY TO SIMCOE LLC USING INFORMATION BELOW.

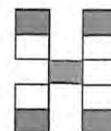
Date: 8/27/20 Time: 1702 Relinquished by: [Signature]

Received by: [Signature] Date: 8/27/20 Time: 1702

CONTACT: Steve Moskal / Erin Dunman

Date: 8/27/20 Time: 1702 Relinquished by: [Signature]

Received by: [Signature] Date: 8/27/20 Time: 1702

PO #: Already or to be provided.
Seal intactHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record

Client: SIMCOE LLC / COTTONWOOD CONSULTING

Mailing Address: 1100 MAIN ST.

DURANGO, COLO. 81301

Phone #: (505) 330-9179

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush _____

Project Name:

GCU Com H # 180

Project #:

Project Manager:

Steve Moskal /
Erin Dunman

Sampler: Nelson Velez

On Ice: ☒ Yes ☐ No

Sample Temperature: See Remarks

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBB	BTEX + MTBB	TPH 8015B (C	TPH (Metho	EDB (Metho	PAH (8310 o	RCRA 8 Met	Anions (F, C	pH	Total Dissol	8260B (VOA	Dissolved Ir	Dissolved Le	Dissolved M	Grab sample	Air Bubbles (
10/14/20	1050	WATER	MW # 102	40 ml VOA - 2	HCl & Cool	2010743 001											✓				✓	
10/14/20	1020	WATER	MW # 103	40 ml VOA - 2	HCl & Cool	002											✓				✓	
10/14/20	1120	WATER	MW # 104	40 ml VOA - 2	HCl & Cool	003											✓				✓	
10/14/20	0930	WATER	MW # 105	40 ml VOA - 2	HCl & Cool	004											✓				✓	

Date: 10/14/20 Time: 1445 Relinquished by: [Signature]

Received by: [Signature]

Date: 10/14/20 Time: 1445

Remarks: BILL DIRECTLY TO SIMCOE LLC USING INFORMATION BELOW.

CONTACT: Steve Moskal / Erin Dunman

PO #: Already or to be provided.

Date: 10/14/2020 Time: 1828 Relinquished by: [Signature]

Received by: [Signature]

Date: 10/15/20 Time: 8:00

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2008G07

02-Sep-20

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R71485		RunNo: 71485							
Prep Date:	Analysis Date: 8/30/2020		SeqNo: 2496163		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
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 9 of 11

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

WO#: 2008G07

02-Sep-20

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R71485	RunNo: 71485								
Prep Date:	Analysis Date: 8/30/2020	SeqNo: 2496163 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	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.2	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.1	70	130			
Surr: Toluene-d8	9.3		10.00		92.9	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R71485	RunNo: 71485								
Prep Date:	Analysis Date: 8/30/2020	SeqNo: 2496164 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	19	1.0	20.00	0	94.5	70	130			

Qualifiers:

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

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 10 of 11

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

WO#: 2008G07

02-Sep-20

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R71485	RunNo: 71485								
Prep Date:	Analysis Date: 8/30/2020	SeqNo: 2496164	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22	1.0	20.00	0	111	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.8	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.0	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	8.9		10.00		88.8	70	130			

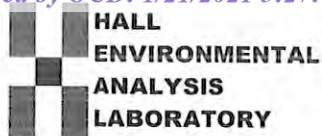
Sample ID: 2008G20-009A MS	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: BatchQC	Batch ID: R71485	RunNo: 71485								
Prep Date:	Analysis Date: 8/30/2020	SeqNo: 2496270	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16000	100	2000	14550	65.3	70	130			ES
Toluene	2400	100	2000	274.6	105	70	130			
Chlorobenzene	2000	100	2000	0	100	70	130			
1,1-Dichloroethene	2000	100	2000	0	98.4	70	130			
Trichloroethene (TCE)	1700	100	2000	0	84.4	70	130			
Surr: 1,2-Dichloroethane-d4	920		1000		91.9	70	130			
Surr: 4-Bromofluorobenzene	920		1000		92.0	70	130			
Surr: Dibromofluoromethane	950		1000		95.2	70	130			
Surr: Toluene-d8	990		1000		99.2	70	130			

Sample ID: 2008G20-009A MSD	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: BatchQC	Batch ID: R71485	RunNo: 71485								
Prep Date:	Analysis Date: 8/30/2020	SeqNo: 2496271	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16000	100	2000	14550	78.4	70	130	1.64	20	E
Toluene	2300	100	2000	274.6	100	70	130	3.91	20	
Chlorobenzene	2000	100	2000	0	99.1	70	130	1.30	20	
1,1-Dichloroethene	2000	100	2000	0	99.0	70	130	0.659	20	
Trichloroethene (TCE)	1700	100	2000	0	84.5	70	130	0.102	20	
Surr: 1,2-Dichloroethane-d4	940		1000		94.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	950		1000		95.2	70	130	0	0	
Surr: Dibromofluoromethane	950		1000		95.1	70	130	0	0	
Surr: Toluene-d8	970		1000		97.2	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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



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

Sample Log-In Check List

Client Name: SIMCOE/Cottonwood Consulting

Work Order Number: 2008G07

RcptNo: 1

Received By: Cheyenne Cason 8/28/2020 8:00:00 AM

Completed By: Emily Mocho 8/28/2020 9:58:36 AM

Reviewed By: JR 8/28/20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°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 8/28/20
PAD 8/28/20

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Not Present			

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

WO#: 2010743

20-Oct-20

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: 100ng lcs	SampType: LCS				TestCode: EPA Method 8260B: VOLATILES					
Client ID: LCSW	Batch ID: R72721				RunNo: 72721					
Prep Date:	Analysis Date: 10/17/2020				SeqNo: 2554279	Units: µg/mL				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	20	1.0	20.00	0	99.5	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.1	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	96.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.9	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID: mb	SampType: MBLK				TestCode: EPA Method 8260B: VOLATILES					
Client ID: PBW	Batch ID: R72721				RunNo: 72721					
Prep Date:	Analysis Date: 10/17/2020				SeqNo: 2554281	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010743

20-Oct-20

Client: SIMCOE/Cottonwood Consulting

Project: GCU Com H 180

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R72721			RunNo: 72721						
Prep Date:	Analysis Date: 10/17/2020			SeqNo: 2554281		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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 10 of 12

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

WO#: 2010743

20-Oct-20

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R72721	RunNo: 72721								
Prep Date:	Analysis Date: 10/17/2020	SeqNo: 2554281	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	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.4	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Sample ID: 2010798-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: BatchQC	Batch ID: R72721	RunNo: 72721								
Prep Date:	Analysis Date: 10/17/2020	SeqNo: 2554440	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	32	1.0	20.00	10.86	105	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.1	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.2	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.1	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: 2010798-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: BatchQC	Batch ID: R72721	RunNo: 72721								
Prep Date:	Analysis Date: 10/17/2020	SeqNo: 2554441	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130	3.20	20	
Toluene	30	1.0	20.00	10.86	96.7	70	130	5.11	20	
Chlorobenzene	20	1.0	20.00	0	102	70	130	4.20	20	
1,1-Dichloroethene	18	1.0	20.00	0	90.9	70	130	6.68	20	
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130	3.65	20	
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		105	70	130	0	0	
Surr: Toluene-d8	9.8		10.00		98.5	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010743

20-Oct-20

Client: SIMCOE/Cottonwood Consulting

Project: GCU Com H 180

Sample ID: 100ng 8260 lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R72726	RunNo: 72726								
Prep Date:	Analysis Date: 10/18/2020	SeqNo: 2555420	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.9	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.4	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R72726	RunNo: 72726								
Prep Date:	Analysis Date: 10/18/2020	SeqNo: 2555421	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.9	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.7	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Sample ID: 2010830-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: BatchQC	Batch ID: R72726	RunNo: 72726								
Prep Date:	Analysis Date: 10/18/2020	SeqNo: 2555439	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.1	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

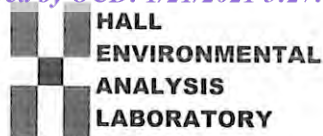
Sample ID: 2010830-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: BatchQC	Batch ID: R72726	RunNo: 72726								
Prep Date:	Analysis Date: 10/18/2020	SeqNo: 2555440	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	0	101	70	130	7.22	20	
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.5		10.00		94.7	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130	0	0	
Surr: Toluene-d8	9.8		10.00		98.5	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

Page 12 of 12



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/Cottonwood Consulting

Work Order Number: 2010743

RcptNo: 1

Received By: Juan Rojas

10/15/2020 8:00:00 AM

Completed By: Desiree Dominguez

10/15/2020 9:32:33 AM

Reviewed By: DAD 10/15/20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°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 10/15/20

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Not Present			
2	2.7	Good	Not Present			
3	0.3	Good	Not Present			
4	0.8	Good	Not Present			

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

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: A74284	RunNo: 74284								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622311 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Manganese	ND	0.0020								

Sample ID: LLCS	SampType: LCSLL	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: BatchQC	Batch ID: A74284	RunNo: 74284								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622313 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020	0.02000	0	92.3	50	150			
Manganese	0.0021	0.0020	0.002000	0	105	50	150			

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: A74284	RunNo: 74284								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622315 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.50	0.020	0.5000	0	99.1	85	115			
Manganese	0.48	0.0020	0.5000	0	96.3	85	115			

Qualifiers:

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

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

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

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: MB	SampType: MBLK	TestCode: EPA 200.8: Dissolved Metals								
Client ID: PBW	Batch ID: A74282	RunNo: 74282								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622180 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.00050								

Sample ID: LLLCS	SampType: LCSLL	TestCode: EPA 200.8: Dissolved Metals								
Client ID: BatchQC	Batch ID: A74282	RunNo: 74282								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622182 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.00053	0.00050	0.0005000	0	105	50	150			

Sample ID: LCS	SampType: LCS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: LCSW	Batch ID: A74282	RunNo: 74282								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622184 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.013	0.00050	0.01250	0	104	85	115			

Sample ID: 2012A18-001CMS	SampType: MS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: MW #101	Batch ID: A74282	RunNo: 74282								
Prep Date:	Analysis Date: 12/29/2020	SeqNo: 2622201 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.058	0.0025	0.06250	0	92.6	70	130			

Qualifiers:

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

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

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

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting**Project:** GCU Com H 180

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R74179	RunNo: 74179								
Prep Date:	Analysis Date: 12/21/2020	SeqNo: 2618128 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R74179	RunNo: 74179								
Prep Date:	Analysis Date: 12/21/2020	SeqNo: 2618129 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.46	0.10	0.5000	0	92.8	90	110			
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.3	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R74201	RunNo: 74201								
Prep Date:	Analysis Date: 12/22/2020	SeqNo: 2619104 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R74201	RunNo: 74201								
Prep Date:	Analysis Date: 12/22/2020	SeqNo: 2619105 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.3	90	110			
Sulfate	9.5	0.50	10.00	0	94.5	90	110			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting

Project: GCU Com H 180

Sample ID: mb2	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: B74244			RunNo: 74244						
Prep Date:	Analysis Date: 12/24/2020			SeqNo: 2620821		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
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting

Project: GCU Com H 180

Sample ID: mb2	SampType: MBLK				TestCode: EPA Method 8260B: VOLATILES					
Client ID: PBW	Batch ID: B74244				RunNo: 74244					
Prep Date:	Analysis Date: 12/24/2020				SeqNo: 2620821	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	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	5.0		10.00		49.9	70	130			S
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

Sample ID: 100NG LCS2	SampType: LCS				TestCode: EPA Method 8260B: VOLATILES					
Client ID: LCSW	Batch ID: B74244				RunNo: 74244					
Prep Date:	Analysis Date: 12/24/2020				SeqNo: 2620822	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting

Project: GCU Com H 180

Sample ID: 100NG LCS2	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch ID: B74244			RunNo: 74244						
Prep Date:	Analysis Date: 12/24/2020			SeqNo: 2620822		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	98.5	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	5.2		10.00		51.9	70	130			S
Surr: Toluene-d8	9.7		10.00		96.7	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012A18
08-Jan-21

Client: SIMCOE/Cottonwood Consulting
Project: GCU Com H 180

Sample ID: 2012A18-005B DUP		SampType: dup		TestCode: SM4500-H+B / 9040C: pH						
Client ID: MW #105		Batch ID: R74231		RunNo: 74231						
Prep Date:		Analysis Date: 12/23/2020		SeqNo: 2620405		Units: pH units				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.78							0.386		H

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012A18

08-Jan-21

Client: SIMCOE/Cottonwood Consulting
Project: GCU Com H 180

Sample ID: MB-57191	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: PBW	Batch ID: 57191	RunNo: 74238
Prep Date: 12/23/2020	Analysis Date: 12/23/2020	SeqNo: 2620643 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0

Sample ID: LCS-57191	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 57191	RunNo: 74238
Prep Date: 12/23/2020	Analysis Date: 12/23/2020	SeqNo: 2620644 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	991	20.0 1000 0 99.1 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

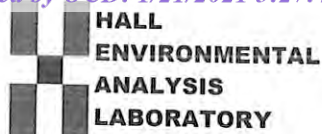
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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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/Cottonwood Con

Work Order Number: 2012A18

RcptNo: 1

Received By: Cheyenne Cason 12/19/2020 7:30:00 AM

Completed By: Isaiah Ortiz 12/21/2020 9:03:02 AM

Reviewed By: *CC**12/21/20**IOX*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°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? *yes*Checked by: *JR 12/21/20*

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: *Poured off 125ml from all unpreserved bottles. Added 0.4ml of HNO₃ to samples 001C-005C for pH<2. For dissolved metals.*

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			
2	1.1	Good	Not Present			

*JR 12/21/20**JR 12/21/20*

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 15300

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number: 15300
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Groundwater Field Data and Lab Results: Content Satisfactory 1. Continue to collect gw samples quarterly for the COCs present. 2. Continue to submit groundwater annual reports by April 1, 2024.	1/16/2024