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Our ref: 048038-LTR-7

July 16, 2021

Ms. Candace Sykora
Wisconsin Department of Natural Resources
890 Spruce Street
Baldwin, Wisconsin 54002

Groundwater Monitoring, May 2021
New Richmond Landfill (#2492)

Dear Ms. Sykora:

On behalf of the New Richmond Landfill Settling PRPs (Settling PRPs), GHD Services, Inc. (GHD) is submitting the semi-annual sampling results for the May 2021 sampling event for the New Richmond Landfill in New Richmond, Wisconsin.

The May 2021 sampling event was conducted on May 6 and 7, 2021. Figure 1 shows the location of the groundwater monitoring points.

Sampling activities were conducted in accordance with the Operation, Maintenance, and Monitoring Plan dated April 2008 and the modifications presented in the Wisconsin Department of Natural Resources (WDNR) technical review letter, dated October 21, 2015. The WDNR increased the number of wells sampled semi-annually in response to modifications to the SVE/LFG system.

A total of seven monitoring wells (MW-10, MW-10A, MW-16, MW-16A, MW-17, MW-17A, and MW-18) were sampled as a part of the sampling event. MW-1 was scheduled to be sampled but was dry. Samples were analyzed for volatile organic compounds (VOCs).

Sample results from all of the wells either showed a decreasing trend from previous sampling rounds or were non-detect for VOCs. All of the VOC detections for the May 2021 round are provided in Table 1.

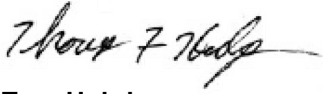
In addition to the monitoring well samples, three residential wells were sampled. 2055 County Road C (Thommes-untreated), 2056 Country Road C (TNT Metals), and 1070 192nd Avenue (Hegge) were sampled and analyzed for VOCs.

Groundwater sampling and analysis was conducted according to the Quality Assurance Project Plan. All samples were shipped to Eurofins TestAmerica Laboratories in University Park, Illinois, for analysis. A copy of the data quality validation memorandum is included as Attachment 1.

The next scheduled sampling event will occur in November 2021.

Should you have any questions regarding this matter, please do not hesitate to call.

Regards,



Tom Hobday
Engineer
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TH/mk/LTR-7

Encl.

cc: Raymond Krueger, Michael Best & Feiedrich (via email)
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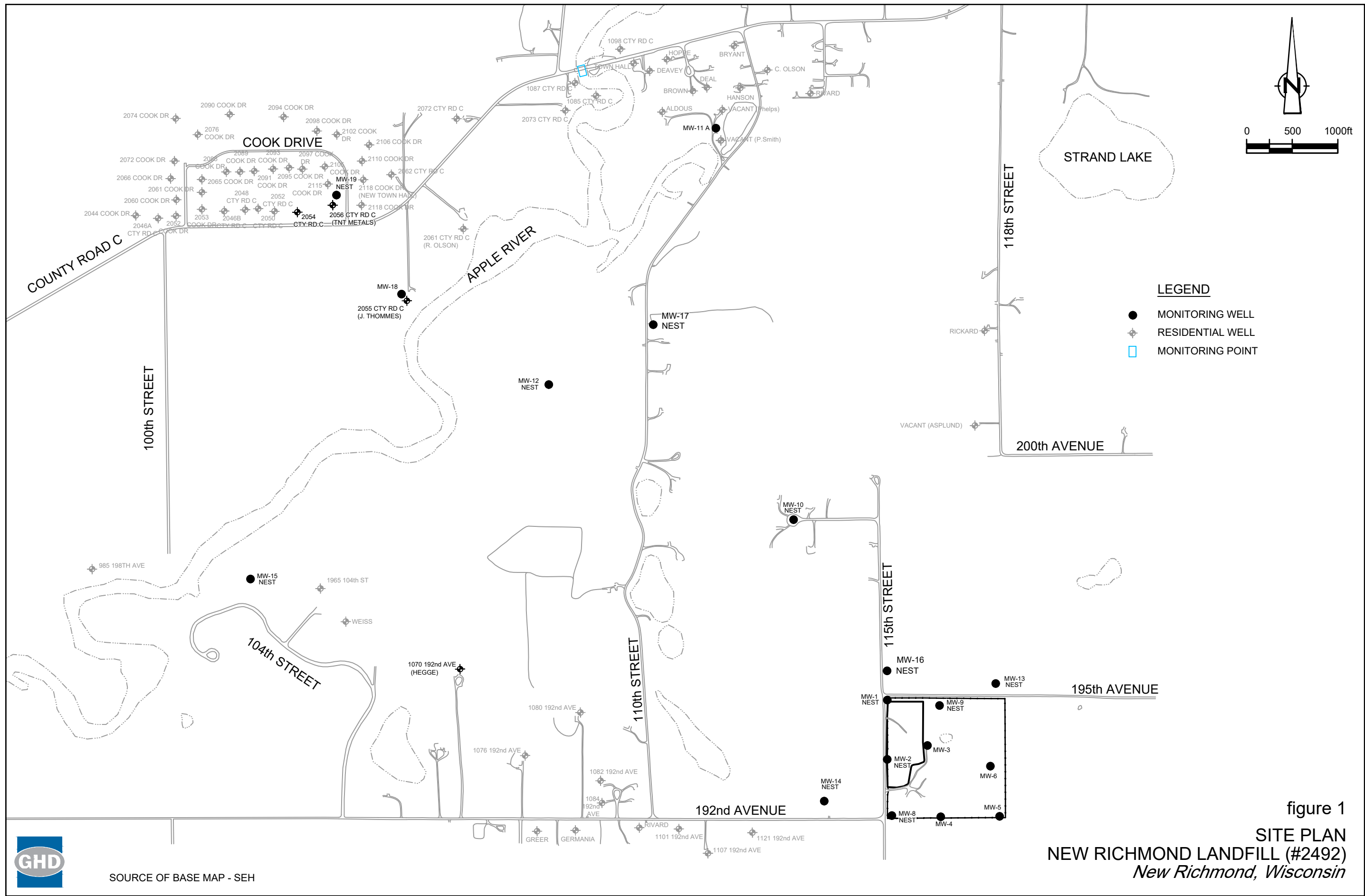


figure 1
 SITE PLAN
 NEW RICHMOND LANDFILL (#2492)
 New Richmond, Wisconsin



SOURCE OF BASE MAP - SEH

Table 1

**Groundwater Detections
New Richmond Landfill (#2492)
New Richmond, Wisconsin**

			1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Chloroethane	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Methylene chloride	Tetrachloroethene	Trichloroethene	
			ES	850	7	80	6	70	5	5	5	
			PAL	40	0.7	400	0.6	7	0.5	0.5	0.5	
				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Location	Sample	Date										
1070 192nd Ave	W-210506-RA-02	05/06/2021	N	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	2.0 J	< 1.0	< 0.50
2055 Cty Rd C	W-210506-RA-03	05/06/2021	N	< 1.0	1.3	1.0	< 1.0	< 2.0	< 1.0	1.8 J	< 1.0	< 0.50
2056 Cty Rd C	W-210506-RA-01	05/06/2021	N	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.9 J	< 1.0	< 0.50
MW18	W-210506-RA-04	05/06/2021	N	5.4	2.2	2.3	< 1.0	< 2.0	< 1.0	1.8 J	< 1.0	< 0.50
MW10	W-210506-RA-08	05/06/2021	N	1.0	1.4	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 1.0	< 0.50
MW10A	W-210506-RA-09	05/06/2021	N	7.3	9.6	< 1.0	< 1.0	< 2.0	0.86 J	1.9 J	1.8	< 0.50
MW16	W-210507-RA-12	05/07/2021	N	9.0	7.7	1.6	< 1.0	0.79 J	< 1.0	< 5.0	1.0	< 0.50
MW16A	W-210507-RA-11	05/07/2021	N	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 1.0	< 0.50
MW17	W-210506-RA-05	05/06/2021	N	5.6	7.8	< 1.0	0.68 J	< 2.0	0.49 J	1.8 J	1.2	0.17 J
MW17	W-210506-RA-06	05/06/2021	FD	5.8	8.5	1.1	< 1.0	< 2.0	0.51 J	1.9 J	1.3	< 0.50
MW17A	W-210506-RA-07	05/06/2021	N	3.0	4.6	< 1.0	< 1.0	< 2.0	< 1.0	1.8 J	< 1.0	< 0.50

Notes:

Enforcement Standard (ES) and Preventative Action Limit (PAL) as found in Wisconsin Administrative Code Chapter NR 140.

< - Not detected at the associated reporting limit.

J - Estimated concentration.

Bold Lettering - Exceeds PAL

Exceeds ES

Attachment 1

Data Quality Validation Memorandum

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198863-1
Client Project/Site: New Richmond - 048038

For:
GHD Services Inc.
1801 Old Highway 8 NW
Suite 114
St. Paul, Minnesota 55112

Attn: Mr. Grant Anderson



Authorized for release by:
5/24/2021 2:33:09 PM

Richard Wright, Senior Project Manager
(708)746-0045
Richard.Wright@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	34
QC Association	35
Surrogate Summary	36
QC Sample Results	37
Chronicle	45
Certification Summary	47
Chain of Custody	48
Receipt Checklists	49

Case Narrative

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Job ID: 500-198863-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-198863-1

Receipt

The samples were received on 5/8/2021 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.2° C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC and logged in.

GC/MS VOA

Method 8260B: Methylene chloride was detected in the following samples: W-210506-RA-01 (500-198863-1), W-210506-RA-02 (500-198863-2), W-210506-RA-03 (500-198863-3), W-210506-RA-04 (500-198863-4), W-210506-RA-05 (500-198863-5), W-210506-RA-06 (500-198863-6), W-210506-RA-07 (500-198863-7), W-210506-RA-09 (500-198863-9), W-210506-RA-09 (500-198863-9[MSJ]) and W-210506-RA-09 (500-198863-9[MSD]). The method blanks associated with these samples was below the reporting limit for Methylene chloride. Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

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

Detection Summary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-01

Lab Sample ID: 500-198863-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.9	J	5.0	1.6	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-02

Lab Sample ID: 500-198863-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.0	J	5.0	1.6	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-03

Lab Sample ID: 500-198863-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.0		1.0	0.39	ug/L	1		8260B	Total/NA
Methylene Chloride	1.8	J	5.0	1.6	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-04

Lab Sample ID: 500-198863-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.4		1.0	0.38	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.2		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.3		1.0	0.39	ug/L	1		8260B	Total/NA
Methylene Chloride	1.8	J	5.0	1.6	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-05

Lab Sample ID: 500-198863-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.6		1.0	0.38	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	7.8		1.0	0.41	ug/L	1		8260B	Total/NA
Chloroethane	0.68	J	1.0	0.51	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.49	J	1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	1.8	J	5.0	1.6	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.2		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.17	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-06

Lab Sample ID: 500-198863-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.8		1.0	0.38	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	8.5		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.1		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.51	J	1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	1.9	J	5.0	1.6	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-07

Lab Sample ID: 500-198863-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.0		1.0	0.38	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.6		1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	1.8	J	5.0	1.6	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-08

Lab Sample ID: 500-198863-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.0		1.0	0.38	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-08 (Continued)

Lab Sample ID: 500-198863-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4		1.0	0.41	ug/L	1		8260B	Total/NA

Client Sample ID: W-210506-RA-09

Lab Sample ID: 500-198863-9

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	7.3		1.0	0.38	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	9.6		1.0	0.41	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.86	J	1.0	0.41	ug/L	1		8260B	Total/NA
Methylene Chloride	1.9	J F1	5.0	1.6	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.8		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: W-210507-RA-10

Lab Sample ID: 500-198863-10

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.70	J	1.0	0.48	ug/L	1		8260B	Total/NA

Client Sample ID: W-210507-RA-11

Lab Sample ID: 500-198863-11

No Detections.

Client Sample ID: W-210507-RA-12

Lab Sample ID: 500-198863-12

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	9.0		1.0	0.38	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	7.7		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.6		1.0	0.39	ug/L	1		8260B	Total/NA
Chloroform	0.79	J	2.0	0.37	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.0		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-198863-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198863-1	W-210506-RA-01	Water	05/06/21 09:30	05/08/21 11:15	
500-198863-2	W-210506-RA-02	Water	05/06/21 09:55	05/08/21 11:15	
500-198863-3	W-210506-RA-03	Water	05/06/21 10:46	05/08/21 11:15	
500-198863-4	W-210506-RA-04	Water	05/06/21 11:15	05/08/21 11:15	
500-198863-5	W-210506-RA-05	Water	05/06/21 11:55	05/08/21 11:15	
500-198863-6	W-210506-RA-06	Water	05/06/21 11:55	05/08/21 11:15	
500-198863-7	W-210506-RA-07	Water	05/06/21 12:50	05/08/21 11:15	
500-198863-8	W-210506-RA-08	Water	05/06/21 13:05	05/08/21 11:15	
500-198863-9	W-210506-RA-09	Water	05/06/21 13:30	05/08/21 11:15	
500-198863-10	W-210507-RA-10	Water	05/07/21 09:20	05/08/21 11:15	
500-198863-11	W-210507-RA-11	Water	05/07/21 09:50	05/08/21 11:15	
500-198863-12	W-210507-RA-12	Water	05/07/21 10:00	05/08/21 11:15	
500-198863-13	Trip Blank	Water	05/07/21 00:00	05/08/21 11:15	

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-01

Lab Sample ID: 500-198863-1

Date Collected: 05/06/21 09:30

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 16:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 16:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 16:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/19/21 16:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 16:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 16:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 16:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 16:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 16:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 16:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 16:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:13	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 16:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:13	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 16:13	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 16:13	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 16:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 16:13	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 16:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 16:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 16:13	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 16:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 16:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 16:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 16:13	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 16:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 16:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 16:13	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 16:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 16:13	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 16:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
Methylene Chloride	1.9 J		5.0	1.6	ug/L			05/19/21 16:13	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 16:13	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 16:13	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 16:13	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 16:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 16:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 16:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 16:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:13	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-01

Lab Sample ID: 500-198863-1

Date Collected: 05/06/21 09:30

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 16:13	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					05/19/21 16:13	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 16:13	1
Dibromofluoromethane (Surr)	89		75 - 120					05/19/21 16:13	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 16:13	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-02

Lab Sample ID: 500-198863-2

Date Collected: 05/06/21 09:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 16:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 16:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 16:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/19/21 16:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 16:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 16:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 16:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 16:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 16:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 16:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 16:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:42	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 16:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:42	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 16:42	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 16:42	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 16:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 16:42	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 16:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 16:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 16:42	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 16:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 16:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 16:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 16:42	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 16:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 16:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 16:42	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 16:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 16:42	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 16:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
Methylene Chloride	2.0	J	5.0	1.6	ug/L			05/19/21 16:42	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 16:42	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 16:42	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 16:42	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 16:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 16:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 16:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 16:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:42	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-02

Lab Sample ID: 500-198863-2

Date Collected: 05/06/21 09:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 16:42	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/19/21 16:42	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 16:42	1
Dibromofluoromethane (Surr)	90		75 - 120					05/19/21 16:42	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 16:42	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-03

Lab Sample ID: 500-198863-3

Date Collected: 05/06/21 10:46

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 17:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 17:10	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 17:10	1
1,1-Dichloroethane	1.3		1.0	0.41	ug/L			05/19/21 17:10	1
1,1-Dichloroethene	1.0		1.0	0.39	ug/L			05/19/21 17:10	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 17:10	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 17:10	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 17:10	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 17:10	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 17:10	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 17:10	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 17:10	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 17:10	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 17:10	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 17:10	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 17:10	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 17:10	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 17:10	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 17:10	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 17:10	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 17:10	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 17:10	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 17:10	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 17:10	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 17:10	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 17:10	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 17:10	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 17:10	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 17:10	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 17:10	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 17:10	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 17:10	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 17:10	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
Methylene Chloride	1.8 J		5.0	1.6	ug/L			05/19/21 17:10	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 17:10	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 17:10	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 17:10	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 17:10	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 17:10	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 17:10	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 17:10	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 17:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-03

Lab Sample ID: 500-198863-3

Date Collected: 05/06/21 10:46

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 17:10	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126					05/19/21 17:10	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 17:10	1
Dibromofluoromethane (Surr)	88		75 - 120					05/19/21 17:10	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 17:10	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-04

Lab Sample ID: 500-198863-4

Date Collected: 05/06/21 11:15

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4		1.0	0.38	ug/L			05/19/21 17:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 17:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 17:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 17:40	1
1,1-Dichloroethane	2.2		1.0	0.41	ug/L			05/19/21 17:40	1
1,1-Dichloroethene	2.3		1.0	0.39	ug/L			05/19/21 17:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 17:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 17:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 17:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 17:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 17:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 17:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 17:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 17:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 17:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 17:40	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 17:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 17:40	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 17:40	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 17:40	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 17:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 17:40	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 17:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 17:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 17:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 17:40	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 17:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 17:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 17:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 17:40	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 17:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 17:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 17:40	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 17:40	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 17:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 17:40	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 17:40	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 17:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 17:40	1
Methylene Chloride	1.8 J		5.0	1.6	ug/L			05/19/21 17:40	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 17:40	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 17:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 17:40	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 17:40	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 17:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 17:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 17:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 17:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 17:40	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-04

Lab Sample ID: 500-198863-4

Date Collected: 05/06/21 11:15

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 17:40	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 126					05/19/21 17:40	1
4-Bromofluorobenzene (Surr)	81		72 - 124					05/19/21 17:40	1
Dibromofluoromethane (Surr)	91		75 - 120					05/19/21 17:40	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 17:40	1



Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-05

Lab Sample ID: 500-198863-5

Date Collected: 05/06/21 11:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6		1.0	0.38	ug/L			05/19/21 18:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 18:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 18:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 18:09	1
1,1-Dichloroethane	7.8		1.0	0.41	ug/L			05/19/21 18:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 18:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 18:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 18:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 18:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 18:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 18:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 18:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 18:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 18:09	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 18:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 18:09	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 18:09	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 18:09	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 18:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 18:09	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 18:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 18:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
Chloroethane	0.68 J		1.0	0.51	ug/L			05/19/21 18:09	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 18:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 18:09	1
cis-1,2-Dichloroethene	0.49 J		1.0	0.41	ug/L			05/19/21 18:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 18:09	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 18:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 18:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 18:09	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 18:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 18:09	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 18:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
Methylene Chloride	1.8 J		5.0	1.6	ug/L			05/19/21 18:09	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 18:09	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 18:09	1
Tetrachloroethene	1.2		1.0	0.37	ug/L			05/19/21 18:09	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 18:09	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 18:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 18:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 18:09	1
Trichloroethene	0.17 J		0.50	0.16	ug/L			05/19/21 18:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 18:09	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-05

Lab Sample ID: 500-198863-5

Date Collected: 05/06/21 11:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 18:09	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/19/21 18:09	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 18:09	1
Dibromofluoromethane (Surr)	90		75 - 120					05/19/21 18:09	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 18:09	1



Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-06

Lab Sample ID: 500-198863-6

Date Collected: 05/06/21 11:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.8		1.0	0.38	ug/L			05/19/21 18:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 18:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 18:41	1
1,1-Dichloroethane	8.5		1.0	0.41	ug/L			05/19/21 18:41	1
1,1-Dichloroethene	1.1		1.0	0.39	ug/L			05/19/21 18:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 18:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 18:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 18:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 18:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 18:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 18:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 18:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 18:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 18:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 18:41	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 18:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 18:41	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 18:41	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 18:41	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 18:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 18:41	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 18:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 18:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 18:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 18:41	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 18:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 18:41	1
cis-1,2-Dichloroethene	0.51 J		1.0	0.41	ug/L			05/19/21 18:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 18:41	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 18:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 18:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 18:41	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 18:41	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 18:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 18:41	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 18:41	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 18:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 18:41	1
Methylene Chloride	1.9 J		5.0	1.6	ug/L			05/19/21 18:41	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 18:41	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 18:41	1
Tetrachloroethene	1.3		1.0	0.37	ug/L			05/19/21 18:41	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 18:41	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 18:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 18:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 18:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 18:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 18:41	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-06

Lab Sample ID: 500-198863-6

Date Collected: 05/06/21 11:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 18:41	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		05/19/21 18:41	1
4-Bromofluorobenzene (Surr)	81		72 - 124		05/19/21 18:41	1
Dibromofluoromethane (Surr)	91		75 - 120		05/19/21 18:41	1
Toluene-d8 (Surr)	94		75 - 120		05/19/21 18:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-07

Lab Sample ID: 500-198863-7

Date Collected: 05/06/21 12:50

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.0		1.0	0.38	ug/L			05/19/21 19:11	1
1,1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 19:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 19:11	1
1,1-Dichloroethane	4.6		1.0	0.41	ug/L			05/19/21 19:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 19:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 19:11	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 19:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 19:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 19:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 19:11	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 19:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 19:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 19:11	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 19:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 19:11	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 19:11	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 19:11	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 19:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 19:11	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 19:11	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 19:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 19:11	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 19:11	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 19:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 19:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 19:11	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 19:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 19:11	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 19:11	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 19:11	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 19:11	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 19:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
Methylene Chloride	1.8 J		5.0	1.6	ug/L			05/19/21 19:11	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 19:11	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 19:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 19:11	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 19:11	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 19:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 19:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 19:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 19:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 19:11	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-07

Lab Sample ID: 500-198863-7

Date Collected: 05/06/21 12:50

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 19:11	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 126					05/19/21 19:11	1
4-Bromofluorobenzene (Surr)	83		72 - 124					05/19/21 19:11	1
Dibromofluoromethane (Surr)	88		75 - 120					05/19/21 19:11	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 19:11	1



Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-08

Lab Sample ID: 500-198863-8

Date Collected: 05/06/21 13:05

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0		1.0	0.38	ug/L			05/20/21 14:30	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/20/21 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/20/21 14:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/20/21 14:30	1
1,1-Dichloroethane	1.4		1.0	0.41	ug/L			05/20/21 14:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/20/21 14:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/20/21 14:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/20/21 14:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/20/21 14:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/20/21 14:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/20/21 14:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/20/21 14:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/20/21 14:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/20/21 14:30	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/20/21 14:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/20/21 14:30	1
Acetone	<1.7		10	1.7	ug/L			05/20/21 14:30	1
Benzene	<0.15		0.50	0.15	ug/L			05/20/21 14:30	1
Bromoform	<0.48		1.0	0.48	ug/L			05/20/21 14:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/20/21 14:30	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/20/21 14:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/20/21 14:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/20/21 14:30	1
Chloroform	<0.37		2.0	0.37	ug/L			05/20/21 14:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/20/21 14:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/20/21 14:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/20/21 14:30	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/20/21 14:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/20/21 14:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/20/21 14:30	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/20/21 14:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/20/21 14:30	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/20/21 14:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/20/21 14:30	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/20/21 14:30	1
Styrene	<0.39		1.0	0.39	ug/L			05/20/21 14:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/20/21 14:30	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/20/21 14:30	1
Toluene	<0.15		0.50	0.15	ug/L			05/20/21 14:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/20/21 14:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/20/21 14:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/20/21 14:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/20/21 14:30	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-08

Lab Sample ID: 500-198863-8

Date Collected: 05/06/21 13:05

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/20/21 14:30	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/20/21 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 126					05/20/21 14:30	1
4-Bromofluorobenzene (Surr)	114		72 - 124					05/20/21 14:30	1
Dibromofluoromethane (Surr)	97		75 - 120					05/20/21 14:30	1
Toluene-d8 (Surr)	101		75 - 120					05/20/21 14:30	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-09

Lab Sample ID: 500-198863-9

Date Collected: 05/06/21 13:30

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	7.3		1.0	0.38	ug/L			05/19/21 19:39	1
1,1,1,2,2-Tetrachloroethane	<0.40	F2	1.0	0.40	ug/L			05/19/21 19:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 19:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 19:39	1
1,1-Dichloroethane	9.6		1.0	0.41	ug/L			05/19/21 19:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 19:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 19:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 19:39	1
1,2-Dibromo-3-Chloropropane	<2.0	F2	5.0	2.0	ug/L			05/19/21 19:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 19:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 19:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 19:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 19:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 19:39	1
2-Hexanone	<1.6	F2	5.0	1.6	ug/L			05/19/21 19:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 19:39	1
Acetone	<1.7	F1 F2	10	1.7	ug/L			05/19/21 19:39	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 19:39	1
Bromoform	<0.48	F2	1.0	0.48	ug/L			05/19/21 19:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 19:39	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 19:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 19:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 19:39	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 19:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 19:39	1
cis-1,2-Dichloroethene	0.86 J		1.0	0.41	ug/L			05/19/21 19:39	1
cis-1,3-Dichloropropene	<0.42	F2	1.0	0.42	ug/L			05/19/21 19:39	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 19:39	1
Dichlorodifluoromethane	<0.67	F2	3.0	0.67	ug/L			05/19/21 19:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 19:39	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 19:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
2-Butanone (MEK)	<2.1	F2	5.0	2.1	ug/L			05/19/21 19:39	1
4-Methyl-2-pentanone (MIBK)	<2.2	F2	5.0	2.2	ug/L			05/19/21 19:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
Methylene Chloride	1.9 J F1		5.0	1.6	ug/L			05/19/21 19:39	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 19:39	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 19:39	1
Tetrachloroethene	1.8		1.0	0.37	ug/L			05/19/21 19:39	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 19:39	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 19:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 19:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 19:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 19:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 19:39	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-09

Lab Sample ID: 500-198863-9

Date Collected: 05/06/21 13:30

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 19:39	1
Chlorodibromomethane	<0.49	F2	1.0	0.49	ug/L			05/19/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		05/19/21 19:39	1
4-Bromofluorobenzene (Surr)	82		72 - 124		05/19/21 19:39	1
Dibromofluoromethane (Surr)	90		75 - 120		05/19/21 19:39	1
Toluene-d8 (Surr)	94		75 - 120		05/19/21 19:39	1



Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210507-RA-10

Lab Sample ID: 500-198863-10

Date Collected: 05/07/21 09:20

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/20/21 15:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/20/21 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/20/21 15:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/20/21 15:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/20/21 15:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/20/21 15:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/20/21 15:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/20/21 15:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/20/21 15:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/20/21 15:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/20/21 15:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/20/21 15:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/20/21 15:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/20/21 15:48	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/20/21 15:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/20/21 15:48	1
Acetone	<1.7		10	1.7	ug/L			05/20/21 15:48	1
Benzene	<0.15		0.50	0.15	ug/L			05/20/21 15:48	1
Bromoform	0.70 J		1.0	0.48	ug/L			05/20/21 15:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/20/21 15:48	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/20/21 15:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/20/21 15:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/20/21 15:48	1
Chloroform	<0.37		2.0	0.37	ug/L			05/20/21 15:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/20/21 15:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/20/21 15:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/20/21 15:48	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/20/21 15:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/20/21 15:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/20/21 15:48	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/20/21 15:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/20/21 15:48	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/20/21 15:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/20/21 15:48	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/20/21 15:48	1
Styrene	<0.39		1.0	0.39	ug/L			05/20/21 15:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/20/21 15:48	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/20/21 15:48	1
Toluene	<0.15		0.50	0.15	ug/L			05/20/21 15:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/20/21 15:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/20/21 15:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/20/21 15:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/20/21 15:48	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210507-RA-10

Lab Sample ID: 500-198863-10

Date Collected: 05/07/21 09:20

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/20/21 15:48	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/20/21 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126					05/20/21 15:48	1
4-Bromofluorobenzene (Surr)	115		72 - 124					05/20/21 15:48	1
Dibromofluoromethane (Surr)	97		75 - 120					05/20/21 15:48	1
Toluene-d8 (Surr)	102		75 - 120					05/20/21 15:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210507-RA-11

Lab Sample ID: 500-198863-11

Date Collected: 05/07/21 09:50

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/20/21 16:14	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/20/21 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/20/21 16:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/20/21 16:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/20/21 16:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/20/21 16:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/20/21 16:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/20/21 16:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/20/21 16:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/20/21 16:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/20/21 16:14	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/20/21 16:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/20/21 16:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/20/21 16:14	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/20/21 16:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/20/21 16:14	1
Acetone	<1.7		10	1.7	ug/L			05/20/21 16:14	1
Benzene	<0.15		0.50	0.15	ug/L			05/20/21 16:14	1
Bromoform	<0.48		1.0	0.48	ug/L			05/20/21 16:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/20/21 16:14	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/20/21 16:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/20/21 16:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/20/21 16:14	1
Chloroform	<0.37		2.0	0.37	ug/L			05/20/21 16:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/20/21 16:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/20/21 16:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/20/21 16:14	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/20/21 16:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/20/21 16:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/20/21 16:14	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/20/21 16:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/20/21 16:14	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/20/21 16:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/20/21 16:14	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/20/21 16:14	1
Styrene	<0.39		1.0	0.39	ug/L			05/20/21 16:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/20/21 16:14	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/20/21 16:14	1
Toluene	<0.15		0.50	0.15	ug/L			05/20/21 16:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/20/21 16:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/20/21 16:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/20/21 16:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/20/21 16:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210507-RA-11

Lab Sample ID: 500-198863-11

Date Collected: 05/07/21 09:50

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/20/21 16:14	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/20/21 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126					05/20/21 16:14	1
4-Bromofluorobenzene (Surr)	116		72 - 124					05/20/21 16:14	1
Dibromofluoromethane (Surr)	97		75 - 120					05/20/21 16:14	1
Toluene-d8 (Surr)	100		75 - 120					05/20/21 16:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210507-RA-12

Lab Sample ID: 500-198863-12

Date Collected: 05/07/21 10:00

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.0		1.0	0.38	ug/L			05/20/21 16:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/20/21 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/20/21 16:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/20/21 16:40	1
1,1-Dichloroethane	7.7		1.0	0.41	ug/L			05/20/21 16:40	1
1,1-Dichloroethene	1.6		1.0	0.39	ug/L			05/20/21 16:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/20/21 16:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/20/21 16:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/20/21 16:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/20/21 16:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/20/21 16:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/20/21 16:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/20/21 16:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/20/21 16:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/20/21 16:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/20/21 16:40	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/20/21 16:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/20/21 16:40	1
Acetone	<1.7		10	1.7	ug/L			05/20/21 16:40	1
Benzene	<0.15		0.50	0.15	ug/L			05/20/21 16:40	1
Bromoform	<0.48		1.0	0.48	ug/L			05/20/21 16:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/20/21 16:40	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/20/21 16:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/20/21 16:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/20/21 16:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/20/21 16:40	1
Chloroform	0.79 J		2.0	0.37	ug/L			05/20/21 16:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/20/21 16:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/20/21 16:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/20/21 16:40	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/20/21 16:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/20/21 16:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/20/21 16:40	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/20/21 16:40	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/20/21 16:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/20/21 16:40	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/20/21 16:40	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/20/21 16:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/20/21 16:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/20/21 16:40	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/20/21 16:40	1
Styrene	<0.39		1.0	0.39	ug/L			05/20/21 16:40	1
Tetrachloroethene	1.0		1.0	0.37	ug/L			05/20/21 16:40	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/20/21 16:40	1
Toluene	<0.15		0.50	0.15	ug/L			05/20/21 16:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/20/21 16:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/20/21 16:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/20/21 16:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/20/21 16:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210507-RA-12

Lab Sample ID: 500-198863-12

Date Collected: 05/07/21 10:00

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/20/21 16:40	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/20/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126					05/20/21 16:40	1
4-Bromofluorobenzene (Surr)	114		72 - 124					05/20/21 16:40	1
Dibromofluoromethane (Surr)	97		75 - 120					05/20/21 16:40	1
Toluene-d8 (Surr)	102		75 - 120					05/20/21 16:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-198863-13

Date Collected: 05/07/21 00:00

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/20/21 17:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/20/21 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/20/21 17:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/20/21 17:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/20/21 17:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/20/21 17:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/20/21 17:06	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/20/21 17:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/20/21 17:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/20/21 17:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/20/21 17:06	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/20/21 17:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/20/21 17:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/20/21 17:06	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/20/21 17:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/20/21 17:06	1
Acetone	<1.7		10	1.7	ug/L			05/20/21 17:06	1
Benzene	<0.15		0.50	0.15	ug/L			05/20/21 17:06	1
Bromoform	<0.48		1.0	0.48	ug/L			05/20/21 17:06	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/20/21 17:06	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/20/21 17:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/20/21 17:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/20/21 17:06	1
Chloroform	<0.37		2.0	0.37	ug/L			05/20/21 17:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/20/21 17:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/20/21 17:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/20/21 17:06	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/20/21 17:06	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/20/21 17:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/20/21 17:06	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/20/21 17:06	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/20/21 17:06	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/20/21 17:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/20/21 17:06	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/20/21 17:06	1
Styrene	<0.39		1.0	0.39	ug/L			05/20/21 17:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/20/21 17:06	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/20/21 17:06	1
Toluene	<0.15		0.50	0.15	ug/L			05/20/21 17:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/20/21 17:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/20/21 17:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/20/21 17:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/20/21 17:06	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-198863-13

Date Collected: 05/07/21 00:00

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/20/21 17:06	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/20/21 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					05/20/21 17:06	1
4-Bromofluorobenzene (Surr)	113		72 - 124					05/20/21 17:06	1
Dibromofluoromethane (Surr)	98		75 - 120					05/20/21 17:06	1
Toluene-d8 (Surr)	102		75 - 120					05/20/21 17:06	1

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

GC/MS VOA

Analysis Batch: 599640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198863-1	W-210506-RA-01	Total/NA	Water	8260B	
500-198863-2	W-210506-RA-02	Total/NA	Water	8260B	
500-198863-3	W-210506-RA-03	Total/NA	Water	8260B	
500-198863-4	W-210506-RA-04	Total/NA	Water	8260B	
500-198863-5	W-210506-RA-05	Total/NA	Water	8260B	
500-198863-6	W-210506-RA-06	Total/NA	Water	8260B	
500-198863-7	W-210506-RA-07	Total/NA	Water	8260B	
500-198863-9	W-210506-RA-09	Total/NA	Water	8260B	
MB 500-599640/6	Method Blank	Total/NA	Water	8260B	
LCS 500-599640/4	Lab Control Sample	Total/NA	Water	8260B	
500-198863-9 MS	W-210506-RA-09	Total/NA	Water	8260B	

Analysis Batch: 599926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198863-8	W-210506-RA-08	Total/NA	Water	8260B	
500-198863-10	W-210507-RA-10	Total/NA	Water	8260B	
500-198863-11	W-210507-RA-11	Total/NA	Water	8260B	
500-198863-12	W-210507-RA-12	Total/NA	Water	8260B	
500-198863-13	Trip Blank	Total/NA	Water	8260B	
MB 500-599926/6	Method Blank	Total/NA	Water	8260B	
LCS 500-599926/4	Lab Control Sample	Total/NA	Water	8260B	
500-198863-9 MSD	W-210506-RA-09	Total/NA	Water	8260B	

Surrogate Summary

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-198863-1	W-210506-RA-01	97	82	89	94
500-198863-2	W-210506-RA-02	100	82	90	94
500-198863-3	W-210506-RA-03	98	82	88	94
500-198863-4	W-210506-RA-04	101	81	91	94
500-198863-5	W-210506-RA-05	100	82	90	94
500-198863-6	W-210506-RA-06	100	81	91	94
500-198863-7	W-210506-RA-07	99	83	88	94
500-198863-8	W-210506-RA-08	92	114	97	101
500-198863-9	W-210506-RA-09	99	82	90	94
500-198863-9 MS	W-210506-RA-09	100	81	94	94
500-198863-9 MSD	W-210506-RA-09	96	101	95	102
500-198863-10	W-210507-RA-10	96	115	97	102
500-198863-11	W-210507-RA-11	98	116	97	100
500-198863-12	W-210507-RA-12	96	114	97	102
500-198863-13	Trip Blank	95	113	98	102
LCS 500-599640/4	Lab Control Sample	95	82	92	98
LCS 500-599926/4	Lab Control Sample	94	99	96	102
MB 500-599640/6	Method Blank	99	83	89	94
MB 500-599926/6	Method Blank	95	112	97	99

Surrogate Legend

- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)
- TOL = Toluene-d8 (Surr)

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: MB 500-599640/6
Matrix: Water
Analysis Batch: 599640

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 10:58	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 10:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 10:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/19/21 10:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 10:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 10:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 10:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 10:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 10:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 10:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 10:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 10:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 10:58	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 10:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 10:58	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 10:58	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 10:58	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 10:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 10:58	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 10:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 10:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 10:58	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 10:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 10:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 10:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 10:58	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 10:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 10:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 10:58	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 10:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 10:58	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 10:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/19/21 10:58	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 10:58	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 10:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 10:58	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 10:58	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 10:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 10:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 10:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 10:58	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: MB 500-599640/6
Matrix: Water
Analysis Batch: 599640

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 10:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 10:58	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 10:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		05/19/21 10:58	1
4-Bromofluorobenzene (Surr)	83		72 - 124		05/19/21 10:58	1
Dibromofluoromethane (Surr)	89		75 - 120		05/19/21 10:58	1
Toluene-d8 (Surr)	94		75 - 120		05/19/21 10:58	1

Lab Sample ID: LCS 500-599640/4
Matrix: Water
Analysis Batch: 599640

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	50.0	46.0		ug/L		92	70 - 125
1,1,1,2-Tetrachloroethane	50.0	36.6		ug/L		73	62 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/L		94	70 - 123
1,1,2-Trichloroethane	50.0	44.3		ug/L		89	71 - 130
1,1-Dichloroethane	50.0	41.7		ug/L		83	70 - 125
1,1-Dichloroethene	50.0	46.4		ug/L		93	67 - 122
1,2,3-Trichlorobenzene	50.0	42.8		ug/L		86	51 - 145
1,2,4-Trichlorobenzene	50.0	41.6		ug/L		83	57 - 137
1,2,4-Trimethylbenzene	50.0	42.2		ug/L		84	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	28.4		ug/L		57	56 - 123
1,2-Dichlorobenzene	50.0	41.9		ug/L		84	70 - 125
1,2-Dichloroethane	50.0	46.3		ug/L		93	68 - 127
1,2-Dichloropropane	50.0	44.2		ug/L		88	67 - 130
1,3,5-Trimethylbenzene	50.0	42.5		ug/L		85	70 - 123
1,3-Dichlorobenzene	50.0	43.0		ug/L		86	70 - 125
1,4-Dichlorobenzene	50.0	43.1		ug/L		86	70 - 120
2-Hexanone	50.0	37.0		ug/L		74	54 - 146
Bromochloromethane	50.0	45.0		ug/L		90	65 - 122
Acetone	50.0	35.7		ug/L		71	40 - 143
Benzene	50.0	45.8		ug/L		92	70 - 120
Bromoform	50.0	34.7		ug/L		69	56 - 132
Bromomethane	50.0	57.4		ug/L		115	40 - 152
Carbon disulfide	50.0	41.5		ug/L		83	66 - 120
Carbon tetrachloride	50.0	42.8		ug/L		86	59 - 133
Chlorobenzene	50.0	45.8		ug/L		92	70 - 120
Chloroethane	50.0	53.6		ug/L		107	48 - 136
Chloroform	50.0	43.6		ug/L		87	70 - 120
Chloromethane	50.0	46.4		ug/L		93	56 - 152
cis-1,2-Dichloroethene	50.0	44.0		ug/L		88	70 - 125
cis-1,3-Dichloropropene	50.0	39.9		ug/L		80	64 - 127
Dichlorobromomethane	50.0	40.9		ug/L		82	69 - 120
Dichlorodifluoromethane	50.0	56.2		ug/L		112	40 - 159
Ethylbenzene	50.0	48.3		ug/L		97	70 - 123

Eurofins TestAmerica, Chicago

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: LCS 500-599640/4
Matrix: Water
Analysis Batch: 599640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	50.0	42.4		ug/L		85	70 - 125
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	70 - 125
Isopropylbenzene	50.0	41.8		ug/L		84	70 - 126
2-Butanone (MEK)	50.0	31.0		ug/L		62	46 - 144
4-Methyl-2-pentanone (MIBK)	50.0	34.8		ug/L		70	55 - 139
Methyl tert-butyl ether	50.0	45.2		ug/L		90	55 - 123
Methylene Chloride	50.0	42.9		ug/L		86	69 - 125
o-Xylene	50.0	49.0		ug/L		98	70 - 120
Styrene	50.0	46.3		ug/L		93	70 - 120
Tetrachloroethene	50.0	50.6		ug/L		101	70 - 128
Toluene	50.0	46.8		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	45.2		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	38.4		ug/L		77	62 - 128
Trichloroethene	50.0	46.6		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	44.2		ug/L		88	55 - 128
Vinyl chloride	50.0	51.6		ug/L		103	64 - 126
Chlorodibromomethane	50.0	36.8		ug/L		74	68 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
4-Bromofluorobenzene (Surr)	82		72 - 124
Dibromofluoromethane (Surr)	92		75 - 120
Toluene-d8 (Surr)	98		75 - 120

Lab Sample ID: 500-198863-9 MS
Matrix: Water
Analysis Batch: 599640

Client Sample ID: W-210506-RA-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	7.3		50.0	52.0		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	<0.40	F2	50.0	38.2		ug/L		76	62 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		50.0	45.7		ug/L		91	70 - 123
1,1,2-Trichloroethane	<0.35		50.0	45.2		ug/L		90	71 - 130
1,1-Dichloroethane	9.6		50.0	52.1		ug/L		85	70 - 125
1,1-Dichloroethene	<0.39		50.0	46.9		ug/L		94	67 - 122
1,2,3-Trichlorobenzene	<0.46		50.0	40.2		ug/L		80	51 - 145
1,2,4-Trichlorobenzene	<0.34		50.0	38.1		ug/L		76	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	39.0		ug/L		78	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0	F2	50.0	28.6		ug/L		57	56 - 123
1,2-Dichlorobenzene	<0.33		50.0	40.6		ug/L		81	70 - 125
1,2-Dichloroethane	<0.39		50.0	48.2		ug/L		96	68 - 127
1,2-Dichloropropane	<0.43		50.0	45.1		ug/L		90	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	38.8		ug/L		78	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	41.3		ug/L		83	70 - 125
1,4-Dichlorobenzene	<0.36		50.0	41.3		ug/L		83	70 - 120
2-Hexanone	<1.6	F2	50.0	37.6		ug/L		75	54 - 146
Bromochloromethane	<0.43		50.0	47.3		ug/L		95	65 - 122
Acetone	<1.7	F1 F2	50.0	19.3	F1	ug/L		39	40 - 143

Eurofins TestAmerica, Chicago

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: 500-198863-9 MS
Matrix: Water
Analysis Batch: 599640

Client Sample ID: W-210506-RA-09
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.15		50.0	46.3		ug/L		93	70 - 120
Bromoform	<0.48	F2	50.0	34.4		ug/L		69	56 - 132
Bromomethane	<0.80		50.0	58.2		ug/L		116	40 - 152
Carbon disulfide	<0.45		50.0	40.0		ug/L		80	66 - 120
Carbon tetrachloride	<0.38		50.0	41.8		ug/L		84	59 - 133
Chlorobenzene	<0.39		50.0	45.4		ug/L		91	70 - 120
Chloroethane	<0.51		50.0	54.3		ug/L		109	48 - 136
Chloroform	<0.37		50.0	44.7		ug/L		89	70 - 120
Chloromethane	<0.32		50.0	45.9		ug/L		92	56 - 152
cis-1,2-Dichloroethene	0.86	J	50.0	46.2		ug/L		91	70 - 125
cis-1,3-Dichloropropene	<0.42	F2	50.0	37.1		ug/L		74	64 - 127
Dichlorobromomethane	<0.37		50.0	41.5		ug/L		83	69 - 120
Dichlorodifluoromethane	<0.67	F2	50.0	55.9		ug/L		112	40 - 159
Ethylbenzene	<0.18		50.0	46.9		ug/L		94	70 - 123
Ethylene Dibromide	<0.39		50.0	43.0		ug/L		86	70 - 125
m-Xylene & p-Xylene	<0.18		50.0	47.1		ug/L		94	70 - 125
Isopropylbenzene	<0.39		50.0	38.3		ug/L		77	70 - 126
2-Butanone (MEK)	<2.1	F2	50.0	35.3		ug/L		71	46 - 144
4-Methyl-2-pentanone (MIBK)	<2.2	F2	50.0	36.1		ug/L		72	55 - 139
Methyl tert-butyl ether	<0.39		50.0	48.0		ug/L		96	55 - 123
Methylene Chloride	1.9	J F1	50.0	35.0	F1	ug/L		66	69 - 125
o-Xylene	<0.22		50.0	48.0		ug/L		96	70 - 120
Styrene	<0.39		50.0	45.6		ug/L		91	70 - 120
Tetrachloroethene	1.8		50.0	48.5		ug/L		93	70 - 128
Toluene	<0.15		50.0	44.7		ug/L		89	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	45.1		ug/L		90	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	36.5		ug/L		73	62 - 128
Trichloroethene	<0.16		50.0	45.8		ug/L		92	70 - 125
Trichlorofluoromethane	<0.43		50.0	43.6		ug/L		87	55 - 128
Vinyl chloride	<0.20		50.0	50.3		ug/L		101	64 - 126
Chlorodibromomethane	<0.49	F2	50.0	36.7		ug/L		73	68 - 125

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		75 - 126
4-Bromofluorobenzene (Surr)	81		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-599926/6
Matrix: Water
Analysis Batch: 599926

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/20/21 11:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/20/21 11:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/20/21 11:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/20/21 11:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/20/21 11:03	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: MB 500-599926/6
Matrix: Water
Analysis Batch: 599926

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/20/21 11:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/20/21 11:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/20/21 11:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/20/21 11:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/20/21 11:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/20/21 11:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/20/21 11:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/20/21 11:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/20/21 11:03	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/20/21 11:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/20/21 11:03	1
Acetone	<1.7		10	1.7	ug/L			05/20/21 11:03	1
Benzene	<0.15		0.50	0.15	ug/L			05/20/21 11:03	1
Bromoform	<0.48		1.0	0.48	ug/L			05/20/21 11:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/20/21 11:03	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/20/21 11:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/20/21 11:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/20/21 11:03	1
Chloroform	<0.37		2.0	0.37	ug/L			05/20/21 11:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/20/21 11:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/20/21 11:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/20/21 11:03	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/20/21 11:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/20/21 11:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/20/21 11:03	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/20/21 11:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/20/21 11:03	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/20/21 11:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/20/21 11:03	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/20/21 11:03	1
Styrene	<0.39		1.0	0.39	ug/L			05/20/21 11:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/20/21 11:03	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/20/21 11:03	1
Toluene	<0.15		0.50	0.15	ug/L			05/20/21 11:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/20/21 11:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/20/21 11:03	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/20/21 11:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/20/21 11:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/20/21 11:03	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/20/21 11:03	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: MB 500-599926/6
Matrix: Water
Analysis Batch: 599926

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

<i>Surrogate</i>	<i>MB</i>	<i>MB</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		05/20/21 11:03	1
4-Bromofluorobenzene (Surr)	112		72 - 124		05/20/21 11:03	1
Dibromofluoromethane (Surr)	97		75 - 120		05/20/21 11:03	1
Toluene-d8 (Surr)	99		75 - 120		05/20/21 11:03	1

Lab Sample ID: LCS 500-599926/4
Matrix: Water
Analysis Batch: 599926

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

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>
	Added	Result	Qualifier				Limits
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	70 - 125
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	62 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.9		ug/L		86	70 - 123
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	71 - 130
1,1-Dichloroethane	50.0	46.9		ug/L		94	70 - 125
1,1-Dichloroethene	50.0	41.1		ug/L		82	67 - 122
1,2,3-Trichlorobenzene	50.0	41.3		ug/L		83	51 - 145
1,2,4-Trichlorobenzene	50.0	44.0		ug/L		88	57 - 137
1,2,4-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	39.1		ug/L		78	56 - 123
1,2-Dichlorobenzene	50.0	44.4		ug/L		89	70 - 125
1,2-Dichloroethane	50.0	43.6		ug/L		87	68 - 127
1,2-Dichloropropane	50.0	47.1		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	45.5		ug/L		91	70 - 123
1,3-Dichlorobenzene	50.0	45.8		ug/L		92	70 - 125
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	70 - 120
2-Hexanone	50.0	61.2		ug/L		122	54 - 146
Bromochloromethane	50.0	45.6		ug/L		91	65 - 122
Acetone	50.0	52.4		ug/L		105	40 - 143
Benzene	50.0	45.5		ug/L		91	70 - 120
Bromoform	50.0	48.5		ug/L		97	56 - 132
Bromomethane	50.0	50.1		ug/L		100	40 - 152
Carbon disulfide	50.0	44.0		ug/L		88	66 - 120
Carbon tetrachloride	50.0	42.3		ug/L		85	59 - 133
Chlorobenzene	50.0	46.8		ug/L		94	70 - 120
Chloroethane	50.0	47.4		ug/L		95	48 - 136
Chloroform	50.0	44.0		ug/L		88	70 - 120
Chloromethane	50.0	57.7		ug/L		115	56 - 152
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	70 - 125
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	64 - 127
Dichlorobromomethane	50.0	44.4		ug/L		89	69 - 120
Dichlorodifluoromethane	50.0	47.4		ug/L		95	40 - 159
Ethylbenzene	50.0	47.5		ug/L		95	70 - 123
Ethylene Dibromide	50.0	46.3		ug/L		93	70 - 125
m-Xylene & p-Xylene	50.0	46.5		ug/L		93	70 - 125
Isopropylbenzene	50.0	46.7		ug/L		93	70 - 126
2-Butanone (MEK)	50.0	57.7		ug/L		115	46 - 144
4-Methyl-2-pentanone (MIBK)	50.0	63.4		ug/L		127	55 - 139

Eurofins TestAmerica, Chicago

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: LCS 500-599926/4
Matrix: Water
Analysis Batch: 599926

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	42.2		ug/L		84	55 - 123
Methylene Chloride	50.0	42.5		ug/L		85	69 - 125
o-Xylene	50.0	47.3		ug/L		95	70 - 120
Styrene	50.0	46.7		ug/L		93	70 - 120
Tetrachloroethene	50.0	51.1		ug/L		102	70 - 128
Toluene	50.0	47.5		ug/L		95	70 - 125
trans-1,2-Dichloroethene	50.0	44.8		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	44.5		ug/L		89	62 - 128
Trichloroethene	50.0	45.0		ug/L		90	70 - 125
Trichlorofluoromethane	50.0	44.0		ug/L		88	55 - 128
Vinyl chloride	50.0	48.6		ug/L		97	64 - 126
Chlorodibromomethane	50.0	46.0		ug/L		92	68 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 126
4-Bromofluorobenzene (Surr)	99		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: 500-198863-9 MSD
Matrix: Water
Analysis Batch: 599926

Client Sample ID: W-210506-RA-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	7.3		50.0	56.3		ug/L		98	70 - 125	8	20
1,1,2,2-Tetrachloroethane	<0.40	F2	50.0	47.7	F2	ug/L		95	62 - 140	22	20
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		50.0	43.7		ug/L		87	70 - 123	4	20
1,1,2-Trichloroethane	<0.35		50.0	48.4		ug/L		97	71 - 130	7	20
1,1-Dichloroethane	9.6		50.0	56.7		ug/L		94	70 - 125	8	20
1,1-Dichloroethene	<0.39		50.0	43.4		ug/L		87	67 - 122	8	20
1,2,3-Trichlorobenzene	<0.46		50.0	40.9		ug/L		82	51 - 145	2	20
1,2,4-Trichlorobenzene	<0.34		50.0	43.0		ug/L		86	57 - 137	12	20
1,2,4-Trimethylbenzene	<0.36		50.0	44.6		ug/L		89	70 - 123	14	20
1,2-Dibromo-3-Chloropropane	<2.0	F2	50.0	40.6	F2	ug/L		81	56 - 123	35	20
1,2-Dichlorobenzene	<0.33		50.0	44.5		ug/L		89	70 - 125	9	20
1,2-Dichloroethane	<0.39		50.0	44.2		ug/L		88	68 - 127	9	20
1,2-Dichloropropane	<0.43		50.0	46.4		ug/L		93	67 - 130	3	20
1,3,5-Trimethylbenzene	<0.25		50.0	44.8		ug/L		90	70 - 123	14	20
1,3-Dichlorobenzene	<0.40		50.0	45.6		ug/L		91	70 - 125	10	20
1,4-Dichlorobenzene	<0.36		50.0	44.3		ug/L		89	70 - 120	7	20
2-Hexanone	<1.6	F2	50.0	59.9	F2	ug/L		120	54 - 146	46	20
Bromochloromethane	<0.43		50.0	45.2		ug/L		90	65 - 122	5	20
Acetone	<1.7	F1 F2	50.0	47.8	F2	ug/L		96	40 - 143	85	20
Benzene	<0.15		50.0	45.0		ug/L		90	70 - 120	3	20
Bromoform	<0.48	F2	50.0	50.6	F2	ug/L		101	56 - 132	38	20
Bromomethane	<0.80		50.0	49.4		ug/L		99	40 - 152	16	20
Carbon disulfide	<0.45		50.0	44.1		ug/L		88	66 - 120	10	20
Carbon tetrachloride	<0.38		50.0	42.5		ug/L		85	59 - 133	2	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

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

Lab Sample ID: 500-198863-9 MSD

Client Sample ID: W-210506-RA-09

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 599926

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chlorobenzene	<0.39		50.0	46.7		ug/L		93	70 - 120	3	20
Chloroethane	<0.51		50.0	45.7		ug/L		91	48 - 136	17	20
Chloroform	<0.37		50.0	44.8		ug/L		90	70 - 120	0	20
Chloromethane	<0.32		50.0	56.0		ug/L		112	56 - 152	20	20
cis-1,2-Dichloroethene	0.86	J	50.0	45.6		ug/L		90	70 - 125	1	20
cis-1,3-Dichloropropene	<0.42	F2	50.0	46.8	F2	ug/L		94	64 - 127	23	20
Dichlorobromomethane	<0.37		50.0	44.8		ug/L		90	69 - 120	8	20
Dichlorodifluoromethane	<0.67	F2	50.0	45.1	F2	ug/L		90	40 - 159	21	20
Ethylbenzene	<0.18		50.0	47.2		ug/L		94	70 - 123	1	20
Ethylene Dibromide	<0.39		50.0	47.2		ug/L		94	70 - 125	9	20
m-Xylene & p-Xylene	<0.18		50.0	46.3		ug/L		93	70 - 125	2	20
Isopropylbenzene	<0.39		50.0	46.6		ug/L		93	70 - 126	20	20
2-Butanone (MEK)	<2.1	F2	50.0	53.4	F2	ug/L		107	46 - 144	41	20
4-Methyl-2-pentanone (MIBK)	<2.2	F2	50.0	60.9	F2	ug/L		122	55 - 139	51	20
Methyl tert-butyl ether	<0.39		50.0	42.8		ug/L		86	55 - 123	12	20
Methylene Chloride	1.9	J F1	50.0	41.5		ug/L		79	69 - 125	17	20
o-Xylene	<0.22		50.0	46.6		ug/L		93	70 - 120	3	20
Styrene	<0.39		50.0	45.6		ug/L		91	70 - 120	0	20
Tetrachloroethene	1.8		50.0	52.6		ug/L		101	70 - 128	8	20
Toluene	<0.15		50.0	47.3		ug/L		95	70 - 125	6	20
trans-1,2-Dichloroethene	<0.35		50.0	44.7		ug/L		89	70 - 125	1	20
trans-1,3-Dichloropropene	<0.36		50.0	44.0		ug/L		88	62 - 128	19	20
Trichloroethene	<0.16		50.0	45.3		ug/L		91	70 - 125	1	20
Trichlorofluoromethane	<0.43		50.0	42.6		ug/L		85	55 - 128	2	20
Vinyl chloride	<0.20		50.0	47.1		ug/L		94	64 - 126	7	20
Chlorodibromomethane	<0.49	F2	50.0	47.2	F2	ug/L		94	68 - 125	25	20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		75 - 126
4-Bromofluorobenzene (Surr)	101		72 - 124
Dibromofluoromethane (Surr)	95		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Chronicle

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-01

Date Collected: 05/06/21 09:30

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 16:13	PMF	TAL CHI

Client Sample ID: W-210506-RA-02

Date Collected: 05/06/21 09:55

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 16:42	PMF	TAL CHI

Client Sample ID: W-210506-RA-03

Date Collected: 05/06/21 10:46

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 17:10	PMF	TAL CHI

Client Sample ID: W-210506-RA-04

Date Collected: 05/06/21 11:15

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 17:40	PMF	TAL CHI

Client Sample ID: W-210506-RA-05

Date Collected: 05/06/21 11:55

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 18:09	PMF	TAL CHI

Client Sample ID: W-210506-RA-06

Date Collected: 05/06/21 11:55

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 18:41	PMF	TAL CHI

Client Sample ID: W-210506-RA-07

Date Collected: 05/06/21 12:50

Date Received: 05/08/21 11:15

Lab Sample ID: 500-198863-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 19:11	PMF	TAL CHI

Lab Chronicle

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-08

Lab Sample ID: 500-198863-8

Date Collected: 05/06/21 13:05

Matrix: Water

Date Received: 05/08/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599926	05/20/21 14:30	PMF	TAL CHI

Client Sample ID: W-210506-RA-09

Lab Sample ID: 500-198863-9

Date Collected: 05/06/21 13:30

Matrix: Water

Date Received: 05/08/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599640	05/19/21 19:39	PMF	TAL CHI

Client Sample ID: W-210507-RA-10

Lab Sample ID: 500-198863-10

Date Collected: 05/07/21 09:20

Matrix: Water

Date Received: 05/08/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599926	05/20/21 15:48	PMF	TAL CHI

Client Sample ID: W-210507-RA-11

Lab Sample ID: 500-198863-11

Date Collected: 05/07/21 09:50

Matrix: Water

Date Received: 05/08/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599926	05/20/21 16:14	PMF	TAL CHI

Client Sample ID: W-210507-RA-12

Lab Sample ID: 500-198863-12

Date Collected: 05/07/21 10:00

Matrix: Water

Date Received: 05/08/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599926	05/20/21 16:40	PMF	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-198863-13

Date Collected: 05/07/21 00:00

Matrix: Water

Date Received: 05/08/21 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	599926	05/20/21 17:06	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

1

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Chain of Custody Record

532895




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager: <u>Hudley</u>		Site Contact		Date		COC No	
Company Name <u>GAO</u>		Tel/Email:		Lab Contact		Carrier		_____ of _____ COCs	
Address <u>179 Old Highway 8 NW Sub 119</u>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <u>VOCs</u>		 500-198863 COC		Sampler	
City/State/Zip <u>St. Paul MN 55112</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only	
Phone <u>6516390913</u>		TAT if different from Below _____						Walk-in Client	
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling	
Project Name <u>New Richmond LF</u>								Job / SDG No	
Site <u>48038-70-01</u>				<u>500-198863</u>					
P O #								Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	
1	W-210506-RA-01	5/6/21	930	G	GW	3	/	/	
2	RA-02		955			3	/	/	
3	RA-03		1046			3	/	/	
4	RA-04		1115			3	/	/	
5	RA-05		1155			3	/	/	
6	RA-06		1155			3	/	/	
7	RA-07		1250			3	/	/	
8	RA-08		1305			3	/	/	
9	W-210506-RA-09		1330			9	Y	/	
10	W-210507-RA-10	5/7/21	920			3	/	/	
11	W-210507-RA-11	5/7/21	950			3	/	/	
12	W-210507-RA-12	5/7/21	1000			3	/	/	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
13 Trip Blank									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <u>5.4</u> Corr'd <u>5.2</u>		Therm ID No _____			
Relinquished by <u>[Signature]</u>		Company <u>GAO</u>		Date/Time <u>5/7/21 1500</u>		Received by		Date/Time	
Relinquished by		Company		Date/Time		Received by		Date/Time	
Relinquished by		Company		Date/Time		Received by <u>[Signature]</u>		Date/Time <u>5/8/21 1115</u>	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 500-198863-1

Login Number: 198863

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Technical Memorandum

July 15, 2021

To	Tom Hobday, GHD	Tel	612-524-6836
CC	Ryan Aamot, GHD	Email	grant.anderson@ghd.com
From	Grant Anderson/mk/1	Ref. No.	048038-70-01
Subject	Analytical Results and Reduced Validation Groundwater and Residential Well Sampling Event New Richmond Landfill Site New Richmond, Wisconsin May 2021		

1. Introduction

This document details a reduced validation of analytical results for groundwater and residential well samples collected at the New Richmond Landfill Site during May 2021. Volatile organic compound (VOC) samples were submitted to Eurofins TestAmerica (TestAmerica), located in University Park, Illinois. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD Services Inc. (GHD) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain-of-custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i. "Quality Assurance Project Plan (QAPP), New Richmond Landfill, WDNR License #2492"; April 2008, Conestoga Rovers & Associates, Report 7.
- ii. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999, United States Environmental Protection Agency (USEPA) 540/R 99/008.

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain-of-custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding time.

VOC samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

Laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for VOCs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the above criteria, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample, one rinsate blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. All results were non-detect for the analytes of interest.

Rinsate Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site and cleanliness of sample containers, a rinsate blank sample was submitted for analysis, as identified in Table 1. Bromoform was detected in the rinsate blank. However, associated sample results were non-detect; therefore, no qualification of data was necessary based on compounds detected in the rinsate blank. The remaining VOCs were non-detect for the analytes of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards,



Grant Anderson
Chemist

Encl.

Table 1

**Sample Collection and Analysis Summary
Groundwater and Residential Well Sampling Event
New Richmond Landfill Site
New Richmond, Wisconsin
May 2021**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	Comments
W-210506-RA-01	2056 Cty Rd C	water	05/06/2021	09:30	VOC	
W-210506-RA-02	1070 192nd Ave	water	05/06/2021	09:55	VOC	
W-210506-RA-03	2055 Cty Rd C	water	05/06/2021	10:46	VOC	
W-210506-RA-04	MW18	water	05/06/2021	11:15	VOC	
W-210506-RA-05	MW17	water	05/06/2021	11:55	VOC	
W-210506-RA-06	MW17	water	05/06/2021	11:55	VOC	Duplicate (RA-05)
W-210506-RA-07	MW17A	water	05/06/2021	12:50	VOC	
W-210506-RA-08	MW10	water	05/06/2021	13:05	VOC	
W-210506-RA-09	MW10A	water	05/06/2021	13:30	VOC	MS/MSD
W-210507-RA-10	MW16A	water	05/07/2021	09:20	VOC	Rinsate Blank
W-210507-RA-11	MW16A	water	05/07/2021	09:50	VOC	
W-210507-RA-12	MW16	water	05/07/2021	10:00	VOC	
Trip Blank	lab	water	05/07/2021	00:00	VOC	Trip Blank

Notes:

VOC - Volatile Organic Compounds

MS/MSD - Matrix Spike/Matrix Spike Duplicate

Table 2
Validated Analytical Results Summary
Groundwater and Residential Well Sampling Event
New Richmond Landfill Site
New Richmond, Wisconsin
May 2021

Location ID:	1070 192nd Ave	2055 Cty Rd C	2056 Cty Rd C	MW10	MW10A	MW16	MW16A	MW16A	MW16A	MW17	MW17	MW17A	MW18	trip
Sample Name:	W-210506-RA-02	W-210506-RA-03	W-210506-RA-01	W-210506-RA-08	W-210506-RA-09	W-210507-RA-12	W-210507-RA-11	W-210507-RA-10	W-210507-RA-10	W-210506-RA-05	W-210506-RA-06	W-210506-RA-07	W-210506-RA-04	Trip Blank
Sample Date:	05/06/2021	05/06/2021	05/06/2021	05/06/2021	05/06/2021	05/07/2021	05/07/2021	05/07/2021	05/07/2021	05/06/2021	05/06/2021	05/06/2021	05/06/2021	05/07/2021
Parameters	Unit													
Volatile Organic Compounds														
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0	7.3	9.0	1.0 U	1.0 U	5.6	5.8	3.0	5.4	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.3	1.0 U	1.4	9.6	7.7	1.0 U	1.0 U	7.8	8.5	4.6	2.2	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U	1.1	1.0 U	2.3	1.0 U
1,2,3-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Carbon disulfide	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.79 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.86 J	1.0 U	1.0 U	1.0 U	0.49 J	0.51 J	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ethylbenzene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	2.0 J	1.8 J	1.9 J	5.0 U	1.9 J	5.0 U	5.0 U	5.0 U	1.8 J	1.9 J	1.8 J	1.8 J	5.0 U
o-Xylene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0	1.0 U	1.0 U	1.2	1.3	1.0 U	1.0 U	1.0 U
Tetrahydrofuran	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.17 J	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Notes:

U – Not detected at the associated reporting limit

J - Estimated concentration

Table 3

**Analytical Methods and Holding Times
Groundwater and Residential Well Sampling Event
New Richmond Landfill Site
New Richmond, Wisconsin
May 2021**

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14

Notes:

Method Reference:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

900 Long Lake Road, Suite 200
St. Paul, Minnesota 55112
United States
www.ghd.com



Our ref: 048038-LTR-4

July 13, 2021

Mr. James Thommes
2055 County Road C
Somerset, Wisconsin 54025

**Private Well Sampling Results
New Richmond Landfill (WDNR #2492)**

A copy of the laboratory results for the private well sample collected from your property on May 6, 2021 is enclosed for your information. The sample was analyzed for volatile organic compounds (VOCs).

The compounds detected in the water sample from your outdoor spigot are listed below, along with the Preventative Action Limit (PAL) and the Enforcement Standard (ES) for the compounds as found in Wisconsin Administrative Code ch. NR 140.

Compound	Concentration (µg/L)	PAL (µg/L)	ES (µg/L)
1,1 Dichloroethene	1.0	0.7	7.0
1,1 Dichloroethane	1.3	85	850
Methylene Chloride	1.8 J	0.5	5.0

A "J" next to the sample concentration indicates that the result is an estimated value because the result is below the laboratory's limit of detection.

The concentrations of the VOCs detected in your well sample are below the ES; therefore, the water from your well meets state drinking water standards for the compounds tested.

If you have any questions or concerns regarding this issue, please contact me at (612) 524-6855 or Candace Sykora of the Wisconsin Department of Natural Resources (WDNR) at (715) 684 2914 extension #134.

Regards,



Ryan Aamot
Scientist

+1 612 524-6855
ryan.aamot@ghd.com

RA/mk/LTR-4

Encl.

cc: Raymond Krueger, Michael Best & Friedrich (via email)
Candice Sykora, WDNR (via email)
PRP Settling Parties (via email)

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

2055 County Road C

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-03

Lab Sample ID: 500-198863-3

Date Collected: 05/06/21 10:46

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 17:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 17:10	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 17:10	1
1,1-Dichloroethane	1.3		1.0	0.41	ug/L			05/19/21 17:10	1
1,1-Dichloroethene	1.0		1.0	0.39	ug/L			05/19/21 17:10	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 17:10	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 17:10	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 17:10	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 17:10	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 17:10	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 17:10	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 17:10	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 17:10	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 17:10	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 17:10	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 17:10	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 17:10	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 17:10	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 17:10	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 17:10	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 17:10	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 17:10	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 17:10	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 17:10	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 17:10	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 17:10	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 17:10	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 17:10	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 17:10	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 17:10	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 17:10	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 17:10	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 17:10	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
Methylene Chloride	1.8 J		5.0	1.6	ug/L			05/19/21 17:10	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 17:10	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 17:10	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 17:10	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 17:10	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 17:10	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 17:10	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 17:10	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 17:10	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 17:10	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-03

Lab Sample ID: 500-198863-3

Date Collected: 05/06/21 10:46

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 17:10	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126					05/19/21 17:10	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 17:10	1
Dibromofluoromethane (Surr)	88		75 - 120					05/19/21 17:10	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 17:10	1

900 Long Lake Road, Suite 200
St. Paul, Minnesota 55112
United States
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Our ref: 048038-LTR-5

July 13, 2021

TNT Metals
2056 County Road C
Somerset, Wisconsin 54025

**Private Well Sampling Results
New Richmond Landfill (WDNR #2492)**

A copy of the laboratory results for the private well water sample collected from your property on May 6, 2021 is enclosed for your information. The sample was analyzed for volatile organic compounds (VOCs).

The compound detected in the private well water sample along with the Preventative Action Limit (PAL) and the Enforcement Standard (ES) for the compounds as found in Wisconsin Administrative Code ch. NR 140.

Compound	Concentration (µg/L)	PAL (µg/L)	ES (µg/L)
Methylene Chloride	1.9 J	0.5	5.0

A "J" next to the sample concentration indicates that the result is an estimated value because the result is below the laboratory's limit of detection.

The concentration of the Methylene Chloride detected in your well sample is below the ES; therefore, the water from your well meets state drinking water standards for the compounds tested.

If you have any questions or concerns regarding this issue, please contact me at (651) 639 0913 or Candace Sykora of the Wisconsin Department of Natural Resources (WDNR) at (715) 684 2914 extension #134.

Regards,

Ryan Aamot
Scientist

+1 612 524-6855
ryan.aamot@ghd.com

RA/mk/LTR-5

Encl.

cc: Raymond Krueger, Michael Best & Friedrich (via email)
Candice Sykora, WDNR (via email)
PRP Settling Parties (via email)

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

2056 County Road C

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-01

Lab Sample ID: 500-198863-1

Date Collected: 05/06/21 09:30

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 16:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 16:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 16:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/19/21 16:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 16:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 16:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 16:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 16:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 16:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 16:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 16:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:13	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 16:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:13	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 16:13	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 16:13	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 16:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 16:13	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 16:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 16:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 16:13	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 16:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 16:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 16:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 16:13	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 16:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 16:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 16:13	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 16:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 16:13	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 16:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
Methylene Chloride	1.9 J		5.0	1.6	ug/L			05/19/21 16:13	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 16:13	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 16:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 16:13	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 16:13	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 16:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 16:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 16:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 16:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:13	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-01

Lab Sample ID: 500-198863-1

Date Collected: 05/06/21 09:30

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 16:13	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					05/19/21 16:13	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 16:13	1
Dibromofluoromethane (Surr)	89		75 - 120					05/19/21 16:13	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 16:13	1

900 Long Lake Road, Suite 200
St. Paul, Minnesota 55112
United States
www.ghd.com



Our ref: 048038-LTR-6

July 13, 2021

Mr. and Mrs. Dale and Barbara Hegge
1070 192nd Avenue
New Richmond, Wisconsin 54017

**Private Well Sampling Results
New Richmond Landfill (WDNR #2492)**

Dear Mr. and Mrs. Hegge:

A copy of the laboratory results for the private well water sample collected from your property on May 6, 2021 is enclosed for your information. The sample was analyzed for volatile organic compounds (VOCs).

The compound detected in the private well water sample along with the Preventative Action Limit (PAL) and the Enforcement Standard (ES) for the compounds as found in Wisconsin Administrative Code ch. NR 140.

Compound	Concentration (µg/L)	PAL (µg/L)	ES (µg/L)
Methylene Chloride	2.0 J	0.5	5.0

A "J" next to the sample concentration indicates that the result is an estimated value because the result is below the laboratory's limit of detection.

The concentration of the Methylene Chloride detected in your well sample is below the ES; therefore, the water from your well meets state drinking water standards for the compounds tested.

If you have any questions or concerns regarding this issue, please contact me at (651) 639 0913 or Candace Sykora of the Wisconsin Department of Natural Resources (WDNR) at (715) 684 2914 extension #134.

Regards,

Ryan Aamot
Scientist

+1 612 524-6855
ryan.aamot@ghd.com

RA/mk/LTR-6

Encl.

cc: Raymond Krueger, Michael Best & Friedrich (via email)
Candice Sykora, WDNR (via email)
PRP Settling Parties (via email)

Client Sample Results

Client: GHD Services Inc.
Project/Site: New Richmond - 048038

1070 192nd Avenue

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-02

Lab Sample ID: 500-198863-2

Date Collected: 05/06/21 09:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/19/21 16:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/19/21 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.46		1.0	0.46	ug/L			05/19/21 16:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/19/21 16:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/19/21 16:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/19/21 16:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/19/21 16:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/19/21 16:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/19/21 16:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/19/21 16:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/19/21 16:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/19/21 16:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/19/21 16:42	1
2-Hexanone	<1.6		5.0	1.6	ug/L			05/19/21 16:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:42	1
Acetone	<1.7		10	1.7	ug/L			05/19/21 16:42	1
Benzene	<0.15		0.50	0.15	ug/L			05/19/21 16:42	1
Bromoform	<0.48		1.0	0.48	ug/L			05/19/21 16:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			05/19/21 16:42	1
Carbon disulfide	<0.45		2.0	0.45	ug/L			05/19/21 16:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/19/21 16:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/19/21 16:42	1
Chloroform	<0.37		2.0	0.37	ug/L			05/19/21 16:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/19/21 16:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/19/21 16:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/19/21 16:42	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			05/19/21 16:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			05/19/21 16:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/19/21 16:42	1
Ethylene Dibromide	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
m-Xylene & p-Xylene	<0.18		1.0	0.18	ug/L			05/19/21 16:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			05/19/21 16:42	1
4-Methyl-2-pentanone (MIBK)	<2.2		5.0	2.2	ug/L			05/19/21 16:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
Methylene Chloride	2.0 J		5.0	1.6	ug/L			05/19/21 16:42	1
o-Xylene	<0.22		0.50	0.22	ug/L			05/19/21 16:42	1
Styrene	<0.39		1.0	0.39	ug/L			05/19/21 16:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/19/21 16:42	1
Tetrahydrofuran	<1.9		10	1.9	ug/L			05/19/21 16:42	1
Toluene	<0.15		0.50	0.15	ug/L			05/19/21 16:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/19/21 16:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/19/21 16:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/19/21 16:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/19/21 16:42	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: New Richmond - 048038

Job ID: 500-198863-1

Client Sample ID: W-210506-RA-02

Lab Sample ID: 500-198863-2

Date Collected: 05/06/21 09:55

Matrix: Water

Date Received: 05/08/21 11:15

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			05/19/21 16:42	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			05/19/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					05/19/21 16:42	1
4-Bromofluorobenzene (Surr)	82		72 - 124					05/19/21 16:42	1
Dibromofluoromethane (Surr)	90		75 - 120					05/19/21 16:42	1
Toluene-d8 (Surr)	94		75 - 120					05/19/21 16:42	1