Feeney, John M - DNR

From: Enright, Alia <AEnright@trccompanies.com>
Sent: Friday, April 7, 2023 1:10 PM
To: Feeney, John M - DNR
Cc: Amber Thomas; Sellwood, Stephen
Subject: Grafton Lime Kiln Landfill - BRRTS #02-46-549906 and #02-46-000743
Attachments: 2076 First Ave Water Table Results Letter Q1 2023.pdf

Hello John,

Please see the attached letter and results for the water table groundwater sampling conducted at 2076 First Ave. on March 15, 2023. The Village distributed the 2076 First Ave. letter and attachments to the property owner, tenant, and their legal counsel today.

These locations were sampled as proposed in the 12/30/21 SIWP for BRRTS #02-46-549906 & #02-46-000743.

- Select VOC parameters were detected at MW11A, MW12A, MW13A, and DUP-01 samples at concentrations above the respective NR 140 ES and/or PAL.
- Consistent with historical data, the groundwater results indicate that TCE is the primary chemical of concern associated with the site, with all three well samples and the duplicate at similar concentrations exceeding the NR 140 ES for TCE.
- However, these results do not pose an immediate risk because
    - The water supply to the 2076 First Ave. property buildings is supplied by the Village of Grafton municipal water utility.
    - The results from the two rounds of vapor sampling conducted at the 2076 First Ave. property (Aug. 2022 and Jan. 2023) showed indoor air concentrations were less than applicable VALs, indicating concentrations inside the buildings are safe for their continued current use.
- Our proposed next step in the investigation process is to confirm these groundwater results during the annual site-wide groundwater monitoring event, currently scheduled for Third Quarter 2023.

Thank you,
Alia

Alia Enright, PE (WI, CO)
Senior Project Engineer

TRC
1526 Cole Blvd, Suite 150, Lakewood, CO 80401
F 303.792.0122 | **C** 608.572.3845
LinkedIn | Twitter | Blog | TRCcompanies.com

GRAFTON
QUALITY LIFE. NATURALLY.

April 7, 2023

Brian Julien
Grafton Investments, LLC
35056 W Old Woods
Oconomowoc, WI 53066

Michael Steger
2076 First Ave.
Grafton, WI 53024

Subject: Groundwater Sample Results for 2076 First Ave. Property, Grafton, WI
Lime Kiln Landfill, WDNR License No. 3602
BRRTS No. 02-46-549906 and 02-46-000743

Dear Mr. Julien and Mr. Steger:

TRC, on behalf of the Village of Grafton, completed installation and groundwater sampling of the three (3) new water table wells located at 2076 First Ave., Grafton, WI (Site) in March 2023 in an effort to delineate degree and extent of water table groundwater contamination associated with the site. This sampling was performed in accordance with the *Site Investigation Workplan (SIWP)* (TRC, 2021[1]), which was previously provided to you.

The purpose of this letter is to provide you with the results of the recent groundwater investigation sampling conducted at your property on March 15, 2023. The sampling included three (3) recently installed water table monitoring well sampling locations (MW11A, MW12A, and MW13A, with one duplicate sample DUP-01 at MW13A and a Trip Blank). The sample locations are shown as blue cross haired circles on Figure 1 (Attachment 1). Samples were submitted for laboratory analysis by Eurofins Environment Testing for an approved list of volatile organic compounds (VOCs) and 1,4-Dioxane. The laboratory analytical results from the sampling event are included in the attached table (Attachment 2) and the laboratory analytical report is included as Attachment 3 (note: some data qualifiers were added to select results during a data usability assessment, as listed on p. 1 of the laboratory analytical report).

The results shown in the table are compared to the respective WDNR NR 140 Enforcement Standard (ES) and Preventive Action Limit (PAL). Bolding indicates a result exceeding an NR 140 ES and italics indicates a result exceeding an NR 140 PAL. The results of the water table well groundwater

[1] TRC. 2021. Site Investigation Workplan. Lime Kiln Park and West Plume. December 30, 2021.

sampling showed that **select VOC parameters were detected at MW11A, MW12A, MW13A, and DUP-01 samples at concentrations above the respective NR 140 ES and/or PAL.**

Please note that **these results are not representative of the water supply to your building, which is supplied by the Village of Grafton municipal water utility.** Also, remember that the results of the two rounds of indoor air sampling conducted at your property (in August 2022 and January 2023) showed that **no CVOCs were detected in the indoor air or ambient air samples at concentrations above the WDNR's Large Commercial/Industrial Vapor Action Levels (VALs).**

Consistent with historical data, the groundwater results indicate that trichloroethene (TCE) is the primary chemical of concern associated with the site, with all three well samples and the duplicate exceeding the NR 140 ES for TCE.

The Village and TRC continue to discuss results of the investigation with the WDNR and will follow up as needed with updates for potential future work at the site.

If you have any questions concerning the enclosed information, please contact me at 262-375-5325 or Alia Enright with TRC at 608-572-3845. Your cooperation in this matter is greatly appreciated.

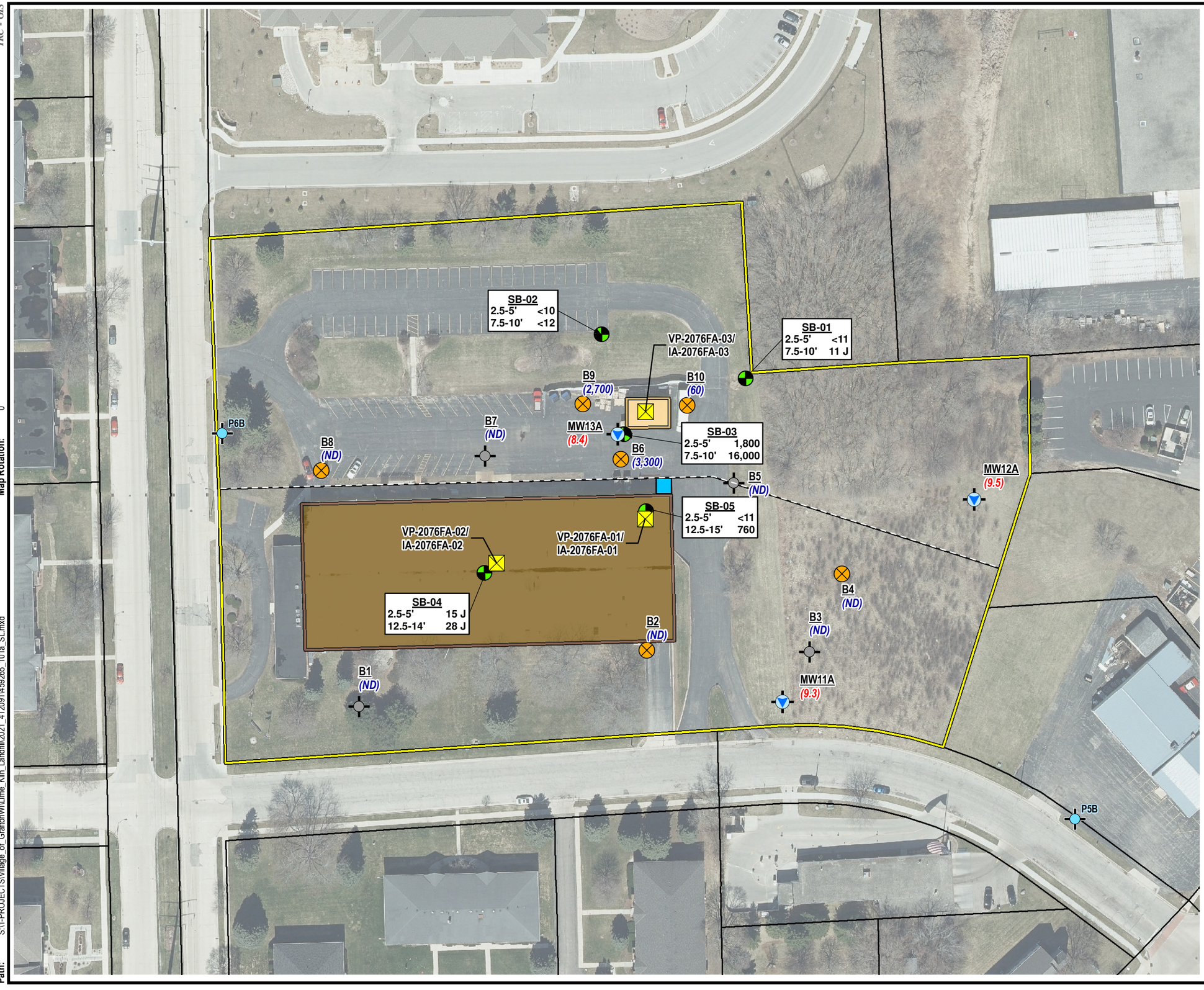
Sincerely,

TRC

Amber Thomas, P.E.
Village of Grafton
Director of Public Works/Village Engineer

Attachments:
1. Figure 1 – Sampling Locations, 2076 First Ave.
2. Table – 2076 First Ave. Groundwater Sampling Results
3. Laboratory Analytical Report

cc: John Feeney – WDNR (electronic only)
Alia Enright P.E., TRC (electronic only)
Michael Herbrand – Houseman & Feind (electronic only)
Jim Guyette – Guyette Law (electronic only)



LEGEND

- OUTDOOR (AMBIENT) AIR SAMPLE (TRC)
- PAIRED SUB-SLAB/INDOOR AIR VAPOR SAMPLE (TRC)
- PREVIOUS SOIL BORING
- PREVIOUS TEMPORARY WELL
- GEOPROBE BORING (TRC)
- WATER TABLE MONITORING WELL (TRC)
- MONITORING WELL
- MAIN BUILDING
- STORAGE SHED
- SITE BOUNDARY
- TAX PARCEL
- (60) TCE SOIL CONCENTRATION IN PPB
- (9.3) TCE WATER CONCENTRATION IN UG/L

NOTES

1. BASE MAP IMAGERY FROM THE SOUTHEAST WI REGIONAL PLANNING COMMISSION (SEWRPC) (2020).
2. PREVIOUS SOIL BORING/TEMPORARY WELL LOCATIONS AND TCE CONCENTRATIONS OBTAINED FROM AECOM FIGURE 4: GEOPROBE LOCATION MAP DATED FEBRUARY 2017.
3. PROPOSED TEMPORARY WELL AT SB-04 WAS NOT INSTALLED DUE TO DRY SOIL CONDITIONS OBSERVED DURING GEOPROBE SOIL SCREENING.

N

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:
BRRTS #02-46-549906 AND #02-46-000743
LIME KILN PARK AND WEST PLUME
GRAFTON, OZAUKEE COUNTY, WISCONSIN

TITLE:
SAMPLING LOCATIONS
2076 FIRST AVE.

DRAWN BY:	A. ADAIR	PROJ. NO.:	459265
CHECKED BY:	A. ENRIGHT		
APPROVED BY:	S. SELLWOOD		**FIGURE 1**
DATE:	MARCH 2023		

TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trccompanies.com

FILE NO.: 459265_101a_SL.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

Plot Date: 3/31/2023, 09:34:13 AM by AADAIR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\Village_of_Grafton\WI\Lime_Kiln_Landfill\2021_412091\459265_101a_SL.mxd

TRC - GIS

2076 First Ave. Groundwater Sampling Results
BRRTS #02-46-549906 and #02-46-000743
Lime Kiln Park and West Plume
Grafton, Ozaukee County, Wisconsin

Analyte	Units	NR 140 ES	NR 140 PAL	Sample ID	MW11A	MW12A	MW13A	MW13A[1]	TRIP BLANK
				Sample Date	03/15/2023	03/15/2023	03/15/2023	03/15/2023	03/15/2023
Color, Field	none	NE	NE		None	None	None	NA	NA
Conductivity, Field	umhos/cm	NE	NE		3101	1083	2446	NA	NA
Dissolved Oxygen, Field	mg/L	NE	NE		7.66	8.14	4.22	NA	NA
Odor, Field	none	NE	NE		None	None	None	NA	NA
Oxidation Reduction Potential, Field	mV	NE	NE		12.9	-23.2	-84.2	NA	NA
pH, Field	su	NE	NE		6.88	6.89	7.13	NA	NA
Temperature, Field	deg C	NE	NE		9.3	8.3	10.7	NA	NA
Turbidity, Field	ntu	NE	NE		4.92	19.62	26.22	NA	NA
1,1,1,2-Tetrachloroethane	ug/L	70	7		< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
1,1,1-Trichloroethane	ug/L	200	40		0.39 J	< 0.38	< 0.38	< 0.38	< 0.38
1,1,2,2-Tetrachloroethane	ug/L	0.2	0.02		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
1,1,2-Trichloroethane	ug/L	5	0.5		< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,1-Dichloroethane	ug/L	850	85		< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	ug/L	7	0.7		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
1,1-Dichloropropene	ug/L	NE	NE		< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
1,2,3-Trichlorobenzene	ug/L	NE	NE		< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
1,2,3-Trichloropropane	ug/L	60	12		< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,2,4-Trichlorobenzene	ug/L	70	14		< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,2,4-Trimethylbenzene	ug/L	480	96		< 0.36	1.8	< 0.36	< 0.36	< 0.36
1,2-Dibromo-3-chloropropane	ug/L	0.2	0.02		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	ug/L	0.05	0.005		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
1,2-Dichlorobenzene	ug/L	600	60		< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,2-Dichloroethane	ug/L	5	0.5		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
1,2-Dichloropropane	ug/L	5	0.5		< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
1,3,5-Trimethylbenzene	ug/L	480	96		< 0.25	0.42 J	< 0.25	< 0.25	< 0.25
1,3-Dichlorobenzene	ug/L	600	120		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
1,3-Dichloropropane	ug/L	NE	NE		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,4-Dichlorobenzene	ug/L	75	15		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
2,2-Dichloropropane	ug/L	NE	NE		< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
2-Chlorotoluene	ug/L	NE	NE		< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
4-Chlorotoluene	ug/L	NE	NE		< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
4-Isopropyltoluene	ug/L	NE	NE		< 0.36	1.5	< 0.36	< 0.36	< 0.36
Benzene	ug/L	5	0.5		< 0.15	***7.3***	0.44 J	0.44 J	< 0.15
Bromobenzene	ug/L	NE	NE		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Bromochloromethane	ug/L	NE	NE		< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Bromodichloromethane	ug/L	0.6	0.06		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	ug/L	4.4	0.44		< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Bromomethane	ug/L	10	1		< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
Carbontetrachloride	ug/L	5	0.5		< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Chlorobenzene	ug/L	100	20		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Chloroethane	ug/L	400	80		< 0.51	< 0.51	< 0.51	< 0.51	< 0.51
Chloroform	ug/L	6	0.6		< 0.37	< 0.37	*0.66 J*	*0.97 J*	< 0.37
Chloromethane	ug/L	30	3		< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
cis-1,2-Dichloroethene	ug/L	70	7		< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
cis-1,3-Dichloropropene	ug/L	0.4	0.04		< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Dibromochloromethane	ug/L	60	6		<0.49	<0.49	<0.49	<0.49	<0.49
Dibromomethane	ug/L	NE	NE		<0.27	<0.27	<0.27	<0.27	<0.27
Dichlorodifluoromethane (Freon12)	ug/L	1000	200		<0.67	<0.67	<0.67	<0.67	<0.67
Di-isopropyl ether	ug/L	NE	NE		< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	ug/L	700	140		< 0.18	2.9	< 0.18	< 0.18	< 0.18
Hexachlorobutadiene	ug/L	NE	NE		< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Isopropylbenzene (Cumene)	ug/L	NE	NE		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Methyltertbutylether (MTBE)	ug/L	60	12		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Methylene chloride	ug/L	5	0.5		< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Naphthalene	ug/L	100	10		< 0.34	< 0.72 U	< 0.34	< 0.34	0.74 J
n-Butylbenzene	ug/L	NE	NE		< 0.39	1.6	< 0.39	< 0.39	< 0.39
n-Propylbenzene	ug/L	NE	NE		< 0.41	1.8	< 0.41	< 0.41	< 0.41
sec-Butylbenzene	ug/L	NE	NE		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Styrene	ug/L	100	10		< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
tert-Butylbenzene	ug/L	NE	NE		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Tetrachloroethene	ug/L	5	0.5		< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Toluene	ug/L	800	160		0.25 J	12	0.61	0.64	< 0.15
trans-1,2-Dichloroethene	ug/L	100	20		< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
trans-1,3-Dichloropropene	ug/L	0.4	0.04		< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Trichloroethene	ug/L	5	0.5		***9.3***	***9.5***	***8.4***	***8.3***	< 0.16
Trichlorofluoromethane (Freon 11)	ug/L	3490	698		< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Vinyl chloride	ug/L	0.2	0.02		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes, total	ug/L	2000	400		< 0.22	9.4	< 0.22	0.35 J	< 0.22
1,4-Dioxane	ug/L	3	0.3		< 0.10	< 0.10	0.13 J	0.13 J	NA

[1]Field duplicate

Notes:

1. NR 140 Preventive Action Limit (PAL) Exceedance: *italics*
2. NR 140 Enforcement Standard (ES) Exceedance: *bold+italics*
3. NE = not established
4. NM = not measured
5. J denotes estimated concentration
6. U Determined to be not detected at the reported limit

eurofins | Environment Testing

Data assessment (Eurofins Chicago/Job ID: 500-230807-1)
All holding times, field and laboratory qc, and blanks met criteria, except as specified below.
8270D SIM ID analysis was performed by Eurofins Buffalo
- Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: MW13A-Q1-23 (500-230807-3) and DUP-01 (500-230807-4). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.
Blanks: sample detections <5x blank value were flagged as nondetect ('U') at the reported limit.
- Analytes in method blanks: Naphthalene 0.857 J, n-Butylbenzene 0.680 J, sec-Butylbenzene 0.667 J, 1,2,4-Trimethylbenzene 0.747 J
- Analytes in Trip Blank: Naphthalene, 0.74J
Data has been reviewed per TRC data usability guidelines and are usable with above notations.
P Popp, 3/29/2023

CHEMICAL_NAME	MW13A		DUP-01		RPD	LCS
1,4-Dioxane	0.13	J	0.13	J	0.0	40-140
Benzene	0.44	J	0.44	J	0.0	70-120
Chloroform	0.66	J	0.97	J	38.0	70-120
Toluene	0.61		0.64		4.8	70-125
Trichloroethene	8.4		8.3		1.2	70-125
Xylenes, total	--		0.35	J		70-125

ANALYTICAL REPORT

PREPARED FOR

Attn: Scott Litwn
TRC Environmental Corporation
6737 W. Washington St., Suite 2100
West Allis, Wisconsin 53214

Generated 3/29/2023 9:04:25 AM

JOB DESCRIPTION

Village of Grafton 197071

JOB NUMBER

500-230807-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

Generated
3/29/2023 9:04:25 AM

Authorized for release by
Sandie Fredrick, Project Manager II
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job ID: 500-230807-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-230807-1

Comments
No additional comments.

Receipt
The samples were received on 3/16/2023 9:40 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 1.7º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for analytical batch 500-704241 recovered outside control limits for the following analytes: Bromobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Internal standard (1,4-Dichlorobenzene-d4) response was outside of acceptance limits for the following sample: MW13A-Q1-23 (500-230807-3) and DUP-01 (500-230807-4). The sample did not have detects of requested analytes using this internal standard. Surrogate 4-Bromofluorobenzene is also being quantitated with this internal standard.

Method 8260B: The method blank for analytical batch 500-704241 contained analytes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.(MB 500-704241/7)

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-662001.

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

Detection Summary

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW11A-Q1-23 — Lab Sample ID: 500-230807-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.25	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.39	J	1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	9.3		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW12A-Q1-23 — Lab Sample ID: 500-230807-2

n-butylbenzene and 124TMB not in assoc MB

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.3		0.50	0.15	ug/L	1		8260B	Total/NA
Ethylbenzene	2.9		0.50	0.18	ug/L	1		8260B	Total/NA
Naphthalene	0.72	~~J~~ U	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	1.6		1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.8		1.0	0.41	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	1.5		1.0	0.36	ug/L	1		8260B	Total/NA
Toluene	12		0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	9.5		0.50	0.16	ug/L	1		8260B	Total/NA
1,2,4-Trimethylbenzene	1.8		1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.42	J	1.0	0.25	ug/L	1		8260B	Total/NA
Xylenes, Total	9.4		1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW13A-Q1-23 — Lab Sample ID: 500-230807-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.44	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroform	0.66	J	2.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.61		0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	8.4		0.50	0.16	ug/L	1		8260B	Total/NA
1,4-Dioxane	0.13	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 500-230807-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.44	J	0.50	0.15	ug/L	1		8260B	Total/NA
Chloroform	0.97	J	2.0	0.37	ug/L	1		8260B	Total/NA
Toluene	0.64		0.50	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	8.3		0.50	0.16	ug/L	1		8260B	Total/NA
Xylenes, Total	0.35	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dioxane	0.13	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-230807-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.74	J B	1.0	0.34	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Sample Summary

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-230807-1	MW11A-Q1-23	Water	03/15/23 10:22	03/16/23 09:40
500-230807-2	MW12A-Q1-23	Water	03/15/23 09:42	03/16/23 09:40
500-230807-3	MW13A-Q1-23	Water	03/15/23 08:40	03/16/23 09:40
500-230807-4	DUP-01	Water	03/15/23 00:00	03/16/23 09:40
500-230807-5	TRIP BLANK	Water	03/15/23 00:00	03/16/23 09:40

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW11A-Q1-23
Date Collected: 03/15/23 10:22
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/26/23 17:37	1
Bromobenzene	<0.36	*+	1.0	0.36	ug/L			03/26/23 17:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/26/23 17:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/26/23 17:37	1
Bromoform	<0.48		1.0	0.48	ug/L			03/26/23 17:37	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/26/23 17:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/26/23 17:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/26/23 17:37	1
Chloroform	<0.37		2.0	0.37	ug/L			03/26/23 17:37	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/26/23 17:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/26/23 17:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/26/23 17:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/26/23 17:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/26/23 17:37	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/26/23 17:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/26/23 17:37	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/26/23 17:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/26/23 17:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/26/23 17:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/26/23 17:37	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/26/23 17:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/26/23 17:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/26/23 17:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/26/23 17:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/26/23 17:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/26/23 17:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/26/23 17:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/26/23 17:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/26/23 17:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/26/23 17:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/26/23 17:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/26/23 17:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/26/23 17:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/26/23 17:37	1
Styrene	<0.39		1.0	0.39	ug/L			03/26/23 17:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/26/23 17:37	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/26/23 17:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/26/23 17:37	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/26/23 17:37	1
Toluene	**0.25**	**J**	0.50	0.15	ug/L			03/26/23 17:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/26/23 17:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/26/23 17:37	1

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW11A-Q1-23
Date Collected: 03/15/23 10:22
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/26/23 17:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/26/23 17:37	1
1,1,1-Trichloroethane	**0.39**	**J**	1.0	0.38	ug/L			03/26/23 17:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/26/23 17:37	1
Trichloroethene	**9.3**		0.50	0.16	ug/L			03/26/23 17:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/26/23 17:37	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/26/23 17:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/26/23 17:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/26/23 17:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/26/23 17:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/26/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*03/26/23 17:37*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*03/26/23 17:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*03/26/23 17:37*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*03/26/23 17:37*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.10		0.20	0.10	ug/L		03/20/23 08:09	03/21/23 20:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*38*		*15 - 110*	*03/20/23 08:09*	*03/21/23 20:31*	*1*

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW12A-Q1-23
Date Collected: 03/15/23 09:42
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.3**		0.50	0.15	ug/L			03/27/23 17:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/27/23 17:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/27/23 17:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/27/23 17:24	1
Bromoform	<0.48		1.0	0.48	ug/L			03/27/23 17:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/27/23 17:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/27/23 17:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/27/23 17:24	1
Chloroform	<0.37		2.0	0.37	ug/L			03/27/23 17:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/27/23 17:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/27/23 17:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/27/23 17:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/27/23 17:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/27/23 17:24	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/27/23 17:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/27/23 17:24	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/27/23 17:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/27/23 17:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/27/23 17:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/27/23 17:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/27/23 17:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/27/23 17:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/27/23 17:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/27/23 17:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/27/23 17:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/27/23 17:24	1
Ethylbenzene	**2.9**		0.50	0.18	ug/L			03/27/23 17:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/27/23 17:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/27/23 17:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/27/23 17:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
Naphthalene	**0.72**	**J**	1.0	0.34	ug/L			03/27/23 17:24	1
n-Butylbenzene	**1.6**		1.0	0.39	ug/L			03/27/23 17:24	1
N-Propylbenzene	**1.8**		1.0	0.41	ug/L			03/27/23 17:24	1
p-Isopropyltoluene	**1.5**		1.0	0.36	ug/L			03/27/23 17:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/27/23 17:24	1
Styrene	<0.39		1.0	0.39	ug/L			03/27/23 17:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/27/23 17:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/27/23 17:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/27/23 17:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/27/23 17:24	1
Toluene	**12**		0.50	0.15	ug/L			03/27/23 17:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/27/23 17:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/27/23 17:24	1

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW12A-Q1-23
Date Collected: 03/15/23 09:42
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/27/23 17:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/27/23 17:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/27/23 17:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/27/23 17:24	1
Trichloroethene	**9.5**		0.50	0.16	ug/L			03/27/23 17:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/27/23 17:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/27/23 17:24	1
1,2,4-Trimethylbenzene	**1.8**		1.0	0.36	ug/L			03/27/23 17:24	1
1,3,5-Trimethylbenzene	**0.42**	**J**	1.0	0.25	ug/L			03/27/23 17:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/27/23 17:24	1
Xylenes, Total	**9.4**		1.0	0.22	ug/L			03/27/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*03/27/23 17:24*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 120*		*03/27/23 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*03/27/23 17:24*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*03/27/23 17:24*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.10		0.20	0.10	ug/L		03/20/23 08:09	03/21/23 20:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*36*		*15 - 110*	*03/20/23 08:09*	*03/21/23 20:53*	*1*

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW13A-Q1-23
Date Collected: 03/15/23 08:40
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.44**	**J**	0.50	0.15	ug/L			03/26/23 18:30	1
Bromobenzene	<0.36	*3 *+	1.0	0.36	ug/L			03/26/23 18:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/26/23 18:30	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/26/23 18:30	1
Bromoform	<0.48		1.0	0.48	ug/L			03/26/23 18:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/26/23 18:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/26/23 18:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/26/23 18:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/26/23 18:30	1
Chloroform	**0.66**	**J**	2.0	0.37	ug/L			03/26/23 18:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/26/23 18:30	1
2-Chlorotoluene	<0.31	*3	1.0	0.31	ug/L			03/26/23 18:30	1
4-Chlorotoluene	<0.35	*3	1.0	0.35	ug/L			03/26/23 18:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/26/23 18:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/26/23 18:30	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/26/23 18:30	1
1,2-Dibromo-3-Chloropropane	<2.0	*3	5.0	2.0	ug/L			03/26/23 18:30	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/26/23 18:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/26/23 18:30	1
1,2-Dichlorobenzene	<0.33	*3	1.0	0.33	ug/L			03/26/23 18:30	1
1,3-Dichlorobenzene	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:30	1
1,4-Dichlorobenzene	<0.36	*3	1.0	0.36	ug/L			03/26/23 18:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/26/23 18:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/26/23 18:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/26/23 18:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/26/23 18:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/26/23 18:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/26/23 18:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/26/23 18:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/26/23 18:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/26/23 18:30	1
Hexachlorobutadiene	<0.45	*3	1.0	0.45	ug/L			03/26/23 18:30	1
Isopropylbenzene	<0.39	*3	1.0	0.39	ug/L			03/26/23 18:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/26/23 18:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/26/23 18:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/26/23 18:30	1
Naphthalene	<0.34	*3	1.0	0.34	ug/L			03/26/23 18:30	1
n-Butylbenzene	<0.39	*3	1.0	0.39	ug/L			03/26/23 18:30	1
N-Propylbenzene	<0.41	*3	1.0	0.41	ug/L			03/26/23 18:30	1
p-Isopropyltoluene	<0.36	*3	1.0	0.36	ug/L			03/26/23 18:30	1
sec-Butylbenzene	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:30	1
Styrene	<0.39		1.0	0.39	ug/L			03/26/23 18:30	1
tert-Butylbenzene	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:30	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/26/23 18:30	1
1,1,2,2-Tetrachloroethane	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/26/23 18:30	1
Toluene	**0.61**		0.50	0.15	ug/L			03/26/23 18:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/26/23 18:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/26/23 18:30	1

Client Sample ID: MW13A-Q1-23
Date Collected: 03/15/23 08:40
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46	*3	1.0	0.46	ug/L			03/26/23 18:30	1
1,2,4-Trichlorobenzene	<0.34	*3	1.0	0.34	ug/L			03/26/23 18:30	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/26/23 18:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/26/23 18:30	1
Trichloroethene	**8.4**		0.50	0.16	ug/L			03/26/23 18:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/26/23 18:30	1
1,2,3-Trichloropropane	<0.41	*3	2.0	0.41	ug/L			03/26/23 18:30	1
1,2,4-Trimethylbenzene	<0.36	*3	1.0	0.36	ug/L			03/26/23 18:30	1
1,3,5-Trimethylbenzene	<0.25	*3	1.0	0.25	ug/L			03/26/23 18:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/26/23 18:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/26/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*	*3	*72 - 124*		*03/26/23 18:30*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*03/26/23 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*03/26/23 18:30*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*03/26/23 18:30*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.13**	**J**	0.20	0.10	ug/L		03/20/23 08:09	03/21/23 21:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*38*		*15 - 110*	*03/20/23 08:09*	*03/21/23 21:16*	*1*

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: DUP-01
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.44**	**J**	0.50	0.15	ug/L			03/26/23 18:56	1
Bromobenzene	<0.36	*3 *+	1.0	0.36	ug/L			03/26/23 18:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/26/23 18:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/26/23 18:56	1
Bromoform	<0.48		1.0	0.48	ug/L			03/26/23 18:56	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/26/23 18:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/26/23 18:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/26/23 18:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/26/23 18:56	1
Chloroform	**0.97**	**J**	2.0	0.37	ug/L			03/26/23 18:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/26/23 18:56	1
2-Chlorotoluene	<0.31	*3	1.0	0.31	ug/L			03/26/23 18:56	1
4-Chlorotoluene	<0.35	*3	1.0	0.35	ug/L			03/26/23 18:56	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/26/23 18:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/26/23 18:56	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/26/23 18:56	1
1,2-Dibromo-3-Chloropropane	<2.0	*3	5.0	2.0	ug/L			03/26/23 18:56	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/26/23 18:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/26/23 18:56	1
1,2-Dichlorobenzene	<0.33	*3	1.0	0.33	ug/L			03/26/23 18:56	1
1,3-Dichlorobenzene	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:56	1
1,4-Dichlorobenzene	<0.36	*3	1.0	0.36	ug/L			03/26/23 18:56	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/26/23 18:56	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/26/23 18:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/26/23 18:56	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/26/23 18:56	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/26/23 18:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/26/23 18:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/26/23 18:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/26/23 18:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/26/23 18:56	1
Hexachlorobutadiene	<0.45	*3	1.0	0.45	ug/L			03/26/23 18:56	1
Isopropylbenzene	<0.39	*3	1.0	0.39	ug/L			03/26/23 18:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/26/23 18:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/26/23 18:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/26/23 18:56	1
Naphthalene	<0.34	*3	1.0	0.34	ug/L			03/26/23 18:56	1
n-Butylbenzene	<0.39	*3	1.0	0.39	ug/L			03/26/23 18:56	1
N-Propylbenzene	<0.41	*3	1.0	0.41	ug/L			03/26/23 18:56	1
p-Isopropyltoluene	<0.36	*3	1.0	0.36	ug/L			03/26/23 18:56	1
sec-Butylbenzene	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:56	1
Styrene	<0.39		1.0	0.39	ug/L			03/26/23 18:56	1
tert-Butylbenzene	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:56	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/26/23 18:56	1
1,1,2,2-Tetrachloroethane	<0.40	*3	1.0	0.40	ug/L			03/26/23 18:56	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/26/23 18:56	1
Toluene	**0.64**		0.50	0.15	ug/L			03/26/23 18:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/26/23 18:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/26/23 18:56	1

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: DUP-01
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46	*3	1.0	0.46	ug/L			03/26/23 18:56	1
1,2,4-Trichlorobenzene	<0.34	*3	1.0	0.34	ug/L			03/26/23 18:56	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/26/23 18:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/26/23 18:56	1
Trichloroethene	**8.3**		0.50	0.16	ug/L			03/26/23 18:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/26/23 18:56	1
1,2,3-Trichloropropane	<0.41	*3	2.0	0.41	ug/L			03/26/23 18:56	1
1,2,4-Trimethylbenzene	<0.36	*3	1.0	0.36	ug/L			03/26/23 18:56	1
1,3,5-Trimethylbenzene	<0.25	*3	1.0	0.25	ug/L			03/26/23 18:56	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/26/23 18:56	1
Xylenes, Total	**0.35**	**J**	1.0	0.22	ug/L			03/26/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*	*3	*72 - 124*		*03/26/23 18:56*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 120*		*03/26/23 18:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*03/26/23 18:56*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*03/26/23 18:56*	*1*

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.13**	**J**	0.20	0.10	ug/L		03/20/23 08:09	03/21/23 21:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*36*		*15 - 110*	*03/20/23 08:09*	*03/21/23 21:39*	*1*

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: TRIP BLANK
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/26/23 16:19	1
Bromobenzene	<0.36	*+	1.0	0.36	ug/L			03/26/23 16:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/26/23 16:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/26/23 16:19	1
Bromoform	<0.48		1.0	0.48	ug/L			03/26/23 16:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/26/23 16:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/26/23 16:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/26/23 16:19	1
Chloroform	<0.37		2.0	0.37	ug/L			03/26/23 16:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/26/23 16:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/26/23 16:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/26/23 16:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/26/23 16:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/26/23 16:19	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/26/23 16:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/26/23 16:19	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/26/23 16:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/26/23 16:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/26/23 16:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/26/23 16:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/26/23 16:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/26/23 16:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/26/23 16:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/26/23 16:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/26/23 16:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/26/23 16:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/26/23 16:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/26/23 16:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/26/23 16:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/26/23 16:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
Naphthalene	**0.74**	**J B**	1.0	0.34	ug/L			03/26/23 16:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/26/23 16:19	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/26/23 16:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/26/23 16:19	1
Styrene	<0.39		1.0	0.39	ug/L			03/26/23 16:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/26/23 16:19	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/26/23 16:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/26/23 16:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/26/23 16:19	1
Toluene	<0.15		0.50	0.15	ug/L			03/26/23 16:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/26/23 16:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/26/23 16:19	1

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: TRIP BLANK
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/26/23 16:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/26/23 16:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/26/23 16:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/26/23 16:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/26/23 16:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/26/23 16:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/26/23 16:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/26/23 16:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/26/23 16:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/26/23 16:19	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/26/23 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*03/26/23 16:19*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 120*		*03/26/23 16:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*03/26/23 16:19*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*03/26/23 16:19*	*1*

Definitions/Glossary

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

GC/MS VOA

Analysis Batch: 704241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230807-1	MW11A-Q1-23	Total/NA	Water	8260B	
500-230807-3	MW13A-Q1-23	Total/NA	Water	8260B	
500-230807-4	DUP-01	Total/NA	Water	8260B	
500-230807-5	TRIP BLANK	Total/NA	Water	8260B	
MB 500-704241/7	Method Blank	Total/NA	Water	8260B	
LCS 500-704241/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 704329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230807-2	MW12A-Q1-23	Total/NA	Water	8260B	
MB 500-704329/7	Method Blank	Total/NA	Water	8260B	
LCS 500-704329/5	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 662001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230807-1	MW11A-Q1-23	Total/NA	Water	3510C	
500-230807-2	MW12A-Q1-23	Total/NA	Water	3510C	
500-230807-3	MW13A-Q1-23	Total/NA	Water	3510C	
500-230807-4	DUP-01	Total/NA	Water	3510C	
MB 480-662001/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-662001/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-662001/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 662185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230807-1	MW11A-Q1-23	Total/NA	Water	8270D SIM ID	662001
500-230807-2	MW12A-Q1-23	Total/NA	Water	8270D SIM ID	662001
500-230807-3	MW13A-Q1-23	Total/NA	Water	8270D SIM ID	662001
500-230807-4	DUP-01	Total/NA	Water	8270D SIM ID	662001
MB 480-662001/1-A	Method Blank	Total/NA	Water	8270D SIM ID	662001
LCS 480-662001/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	662001
LCSD 480-662001/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	662001

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-230807-1	MW11A-Q1-23	107	104	101	93
500-230807-2	MW12A-Q1-23	108	102	103	93
500-230807-3	MW13A-Q1-23	109 *3	107	106	94
500-230807-4	DUP-01	111 *3	109	108	92
500-230807-5	TRIP BLANK	108	106	107	93
LCS 500-704241/5	Lab Control Sample	101	93	91	95
LCS 500-704329/5	Lab Control Sample	106	101	104	94
MB 500-704241/7	Method Blank	103	99	101	93
MB 500-704329/7	Method Blank	107	104	108	92

Surrogate Legend

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

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

Lab Sample ID: MB 500-704241/7
Matrix: Water
Analysis Batch: 704241

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/26/23 15:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/26/23 15:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/26/23 15:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/26/23 15:52	1
Bromoform	<0.48		1.0	0.48	ug/L			03/26/23 15:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/26/23 15:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/26/23 15:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/26/23 15:52	1
Chloroform	<0.37		2.0	0.37	ug/L			03/26/23 15:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/26/23 15:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/26/23 15:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/26/23 15:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/26/23 15:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/26/23 15:52	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/26/23 15:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/26/23 15:52	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/26/23 15:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/26/23 15:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/26/23 15:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/26/23 15:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/26/23 15:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/26/23 15:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/26/23 15:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/26/23 15:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/26/23 15:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/26/23 15:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/26/23 15:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/26/23 15:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/26/23 15:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/26/23 15:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
Naphthalene	0.857	J	1.0	0.34	ug/L			03/26/23 15:52	1
n-Butylbenzene	0.680	J	1.0	0.39	ug/L			03/26/23 15:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/26/23 15:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/26/23 15:52	1
sec-Butylbenzene	0.667	J	1.0	0.40	ug/L			03/26/23 15:52	1
Styrene	<0.39		1.0	0.39	ug/L			03/26/23 15:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/26/23 15:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/26/23 15:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/26/23 15:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/26/23 15:52	1
Toluene	<0.15		0.50	0.15	ug/L			03/26/23 15:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/26/23 15:52	1

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

Lab Sample ID: MB 500-704241/7
Matrix: Water
Analysis Batch: 704241

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/26/23 15:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/26/23 15:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/26/23 15:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/26/23 15:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/26/23 15:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/26/23 15:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/26/23 15:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/26/23 15:52	1
1,2,4-Trimethylbenzene	0.747	J	1.0	0.36	ug/L			03/26/23 15:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/26/23 15:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/26/23 15:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/26/23 15:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*03/26/23 15:52*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*03/26/23 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*03/26/23 15:52*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*03/26/23 15:52*	*1*

Lab Sample ID: LCS 500-704241/5
Matrix: Water
Analysis Batch: 704241

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	40.0	45.5		ug/L		114	70 - 120
Bromobenzene	40.0	49.8	*+	ug/L		124	70 - 122
Bromochloromethane	40.0	46.2		ug/L		115	65 - 122
Bromodichloromethane	40.0	46.8		ug/L		117	69 - 120
Bromoform	40.0	49.1		ug/L		123	56 - 132
Bromomethane	40.0	34.8		ug/L		87	40 - 152
Carbon tetrachloride	40.0	40.0		ug/L		100	59 - 133
Chlorobenzene	40.0	45.3		ug/L		113	70 - 120
Chloroethane	40.0	38.3		ug/L		96	48 - 136
Chloroform	40.0	42.9		ug/L		107	70 - 120
Chloromethane	40.0	33.5		ug/L		84	56 - 152
2-Chlorotoluene	40.0	45.3		ug/L		113	70 - 125
4-Chlorotoluene	40.0	45.9		ug/L		115	68 - 124
cis-1,2-Dichloroethene	40.0	46.7		ug/L		117	70 - 125
cis-1,3-Dichloropropene	40.0	40.5		ug/L		101	64 - 127
Chlorodibromomethane	40.0	47.7		ug/L		119	68 - 125
1,2-Dibromo-3-Chloropropane	40.0	38.0		ug/L		95	56 - 123
1,2-Dibromoethane (EDB)	40.0	46.8		ug/L		117	70 - 125
Dibromomethane	40.0	44.8		ug/L		112	70 - 120
1,2-Dichlorobenzene	40.0	45.1		ug/L		113	70 - 125
1,3-Dichlorobenzene	40.0	46.2		ug/L		115	70 - 125
1,4-Dichlorobenzene	40.0	43.9		ug/L		110	70 - 120
Dichlorodifluoromethane	40.0	37.8		ug/L		94	40 - 159
1,1-Dichloroethane	40.0	42.6		ug/L		106	70 - 125

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

Lab Sample ID: LCS 500-704241/5
Matrix: Water
Analysis Batch: 704241

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	40.0	45.9		ug/L		115	68 - 127
1,1-Dichloroethene	40.0	43.9		ug/L		110	67 - 122
1,2-Dichloropropane	40.0	45.1		ug/L		113	67 - 130
1,3-Dichloropropane	40.0	47.5		ug/L		119	62 - 136
2,2-Dichloropropane	40.0	42.9		ug/L		107	58 - 139
1,1-Dichloropropene	40.0	44.0		ug/L		110	70 - 121
Ethylbenzene	40.0	46.4		ug/L		116	70 - 123
Hexachlorobutadiene	40.0	43.7		ug/L		109	51 - 150
Isopropylbenzene	40.0	38.7		ug/L		97	70 - 126
Methylene Chloride	40.0	44.2		ug/L		110	69 - 125
Methyl tert-butyl ether	40.0	45.7		ug/L		114	55 - 123
Naphthalene	40.0	35.9		ug/L		90	53 - 144
n-Butylbenzene	40.0	36.7		ug/L		92	68 - 125
N-Propylbenzene	40.0	40.3		ug/L		101	69 - 127
p-Isopropyltoluene	40.0	38.7		ug/L		97	70 - 125
sec-Butylbenzene	40.0	37.4		ug/L		93	70 - 123
Styrene	40.0	41.3		ug/L		103	70 - 120
tert-Butylbenzene	40.0	40.3		ug/L		101	70 - 121
1,1,1,2-Tetrachloroethane	40.0	44.9		ug/L		112	70 - 125
1,1,2,2-Tetrachloroethane	40.0	45.8		ug/L		115	62 - 140
Tetrachloroethene	40.0	48.2		ug/L		120	70 - 128
Toluene	40.0	45.8		ug/L		114	70 - 125
trans-1,2-Dichloroethene	40.0	45.9		ug/L		115	70 - 125
trans-1,3-Dichloropropene	40.0	40.5		ug/L		101	62 - 128
1,2,3-Trichlorobenzene	40.0	42.8		ug/L		107	51 - 145
1,2,4-Trichlorobenzene	40.0	42.7		ug/L		107	57 - 137
1,1,1-Trichloroethane	40.0	42.8		ug/L		107	70 - 125
1,1,2-Trichloroethane	40.0	48.1		ug/L		120	71 - 130
Trichloroethene	40.0	48.2		ug/L		121	70 - 125
Trichlorofluoromethane	40.0	38.3		ug/L		96	55 - 128
1,2,3-Trichloropropane	40.0	43.5		ug/L		109	50 - 133
1,2,4-Trimethylbenzene	40.0	38.2		ug/L		95	70 - 123
1,3,5-Trimethylbenzene	40.0	37.9		ug/L		95	70 - 123
Vinyl chloride	40.0	40.4		ug/L		101	64 - 126
Xylenes, Total	80.0	85.9		ug/L		107	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*93*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: MB 500-704329/7
Matrix: Water
Analysis Batch: 704329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/27/23 13:48	1

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

Lab Sample ID: MB 500-704329/7
Matrix: Water
Analysis Batch: 704329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/L			03/27/23 13:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/27/23 13:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/27/23 13:48	1
Bromoform	<0.48		1.0	0.48	ug/L			03/27/23 13:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/27/23 13:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/27/23 13:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/27/23 13:48	1
Chloroform	<0.37		2.0	0.37	ug/L			03/27/23 13:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/27/23 13:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/27/23 13:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/27/23 13:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/27/23 13:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/27/23 13:48	1
Chlorodibromomethane	<0.49		1.0	0.49	ug/L			03/27/23 13:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/27/23 13:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/27/23 13:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/27/23 13:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/27/23 13:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/27/23 13:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/27/23 13:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/27/23 13:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/27/23 13:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/27/23 13:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/27/23 13:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/27/23 13:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/27/23 13:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/27/23 13:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/27/23 13:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/27/23 13:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/27/23 13:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/27/23 13:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/27/23 13:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/27/23 13:48	1
Styrene	<0.39		1.0	0.39	ug/L			03/27/23 13:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/27/23 13:48	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/27/23 13:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/27/23 13:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/27/23 13:48	1
Toluene	<0.15		0.50	0.15	ug/L			03/27/23 13:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/27/23 13:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/27/23 13:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/27/23 13:48	1

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

Lab Sample ID: MB 500-704329/7
Matrix: Water
Analysis Batch: 704329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/27/23 13:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/27/23 13:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/27/23 13:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/27/23 13:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/27/23 13:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/27/23 13:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/27/23 13:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/27/23 13:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/27/23 13:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/27/23 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*03/27/23 13:48*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*03/27/23 13:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*03/27/23 13:48*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*03/27/23 13:48*	*1*

Lab Sample ID: LCS 500-704329/5
Matrix: Water
Analysis Batch: 704329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	49.8		ug/L		100	70 - 120
Bromobenzene	50.0	51.0		ug/L		102	70 - 122
Bromochloromethane	50.0	54.8		ug/L		110	65 - 122
Bromodichloromethane	50.0	56.9		ug/L		114	69 - 120
Bromoform	50.0	66.2		ug/L		132	56 - 132
Bromomethane	50.0	74.9		ug/L		150	40 - 152
Carbon tetrachloride	50.0	55.0		ug/L		110	59 - 133
Chlorobenzene	50.0	49.2		ug/L		98	70 - 120
Chloroethane	50.0	55.6		ug/L		111	48 - 136
Chloroform	50.0	49.8		ug/L		100	70 - 120
Chloromethane	50.0	41.5		ug/L		83	56 - 152
2-Chlorotoluene	50.0	49.2		ug/L		98	70 - 125
4-Chlorotoluene	50.0	50.7		ug/L		101	68 - 124
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 125
cis-1,3-Dichloropropene	50.0	49.9		ug/L		100	64 - 127
Chlorodibromomethane	50.0	60.6		ug/L		121	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	54.4		ug/L		109	56 - 123
1,2-Dibromoethane (EDB)	50.0	53.1		ug/L		106	70 - 125
Dibromomethane	50.0	56.6		ug/L		113	70 - 120
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 125
1,3-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 125
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	40.6		ug/L		81	40 - 159
1,1-Dichloroethane	50.0	51.4		ug/L		103	70 - 125
1,2-Dichloroethane	50.0	55.8		ug/L		112	68 - 127
1,1-Dichloroethene	50.0	52.0		ug/L		104	67 - 122

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

Lab Sample ID: LCS 500-704329/5
Matrix: Water
Analysis Batch: 704329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	50.9		ug/L		102	67 - 130
1,3-Dichloropropane	50.0	52.2		ug/L		104	62 - 136
2,2-Dichloropropane	50.0	51.7		ug/L		103	58 - 139
1,1-Dichloropropene	50.0	50.4		ug/L		101	70 - 121
Ethylbenzene	50.0	47.6		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	29.3		ug/L		59	51 - 150
Isopropylbenzene	50.0	49.0		ug/L		98	70 - 126
Methylene Chloride	50.0	52.3		ug/L		105	69 - 125
Methyl tert-butyl ether	50.0	51.4		ug/L		103	55 - 123
Naphthalene	50.0	35.4		ug/L		71	53 - 144
n-Butylbenzene	50.0	45.0		ug/L		90	68 - 125
N-Propylbenzene	50.0	50.6		ug/L		101	69 - 127
p-Isopropyltoluene	50.0	47.0		ug/L		94	70 - 125
sec-Butylbenzene	50.0	47.0		ug/L		94	70 - 123
Styrene	50.0	50.4		ug/L		101	70 - 120
tert-Butylbenzene	50.0	47.4		ug/L		95	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	70 - 125
1,1,2,2-Tetrachloroethane	50.0	57.3		ug/L		115	62 - 140
Tetrachloroethene	50.0	45.9		ug/L		92	70 - 128
Toluene	50.0	49.8		ug/L		100	70 - 125
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 125
trans-1,3-Dichloropropene	50.0	53.6		ug/L		107	62 - 128
1,2,3-Trichlorobenzene	50.0	31.3		ug/L		63	51 - 145
1,2,4-Trichlorobenzene	50.0	32.9		ug/L		66	57 - 137
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	70 - 125
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	71 - 130
Trichloroethene	50.0	51.5		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	51.4		ug/L		103	55 - 128
1,2,3-Trichloropropane	50.0	58.6		ug/L		117	50 - 133
1,2,4-Trimethylbenzene	50.0	48.4		ug/L		97	70 - 123
1,3,5-Trimethylbenzene	50.0	48.7		ug/L		97	70 - 123
Vinyl chloride	50.0	49.3		ug/L		99	64 - 126
Xylenes, Total	100	95.3		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-662001/1-A
Matrix: Water
Analysis Batch: 662185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.10		0.20	0.10	ug/L		03/20/23 08:09	03/21/23 13:18	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110	03/20/23 08:09	03/21/23 13:18	1

Lab Sample ID: LCS 480-662001/2-A
Matrix: Water
Analysis Batch: 662185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662001

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.06		ug/L		103	40 - 140		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	42		15 - 110

Lab Sample ID: LCSD 480-662001/3-A
Matrix: Water
Analysis Batch: 662185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 662001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			2.00	2.06		ug/L		103	40 - 140	0	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	38		15 - 110

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Client Sample ID: MW11A-Q1-23
Date Collected: 03/15/23 10:22
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704241	W1T	EET CHI	03/26/23 17:37
Total/NA	Prep	3510C			662001	MS	EET BUF	03/20/23 08:09
Total/NA	Analysis	8270D SIM ID		1	662185	JMM	EET BUF	03/21/23 20:31

Client Sample ID: MW12A-Q1-23
Date Collected: 03/15/23 09:42
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704329	W1T	EET CHI	03/27/23 17:24
Total/NA	Prep	3510C			662001	MS	EET BUF	03/20/23 08:09
Total/NA	Analysis	8270D SIM ID		1	662185	JMM	EET BUF	03/21/23 20:53

Client Sample ID: MW13A-Q1-23
Date Collected: 03/15/23 08:40
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704241	W1T	EET CHI	03/26/23 18:30
Total/NA	Prep	3510C			662001	MS	EET BUF	03/20/23 08:09
Total/NA	Analysis	8270D SIM ID		1	662185	JMM	EET BUF	03/21/23 21:16

Client Sample ID: DUP-01
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704241	W1T	EET CHI	03/26/23 18:56
Total/NA	Prep	3510C			662001	MS	EET BUF	03/20/23 08:09
Total/NA	Analysis	8270D SIM ID		1	662185	JMM	EET BUF	03/21/23 21:39

Client Sample ID: TRIP BLANK
Date Collected: 03/15/23 00:00
Date Received: 03/16/23 09:40

Lab Sample ID: 500-230807-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	704241	W1T	EET CHI	03/26/23 16:19

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Job ID: 500-230807-1
Project/Site: Village of Grafton 197071

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-23

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-23

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: S. Litwin	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-110853-46091 1
Client Contact: Scott Litwin	Phone: (414) 391-7345	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: TRC Environmental Corporation	PWS:D			Job #: 500-230807
Address: 6737 W Washington St. Suite 2100	Due Date Requested:			
City: West Alis	TAT Requested (days): 10			
State, Zip: WI 53214	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: slitwin@trccompanies.com	WO #:			
Project Name: Village of Grafton 197071	Project #: 50020177			
Site:	SSOW#:			

Analysis Requested

500-230807 COC

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC	8270D_SIM_MS_ID - 1,4 Dioxane	Total Number of containers	Special Instructions/Note
				Preservation Code:				A	N		
1	MW11A -Q1-23	3-15-23	10 22	G	Water			X	X		
2	MW12A - Q1 - 23		9 42		Water			X	X		
3	MW13A - Q1 - 23		8 40		Water			X	X		
4	DUP-01		—		Water			X	X		
5	TRIP BLANK				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3-15-23 1300	TRC	Stephanie Hernandez	3/16/23 0940	EEA
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks	2.8+1.7

Please CC Alia Enright a copy of the COC and Results. Aenright@TRCCompanies.Com

500-230807 Waybi

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-171916.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-230807-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/29/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Soils/Water West Allis - NON WISDOT	Project #: 50020177			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM_MS_ID/3510C_LVI 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW11A-Q1-23 (500-230807-1)	3/15/23	10:22 Central		Water			X	2	
MW12A-Q1-23 (500-230807-2)	3/15/23	09:42 Central		Water			X	2	
MW13A-Q1-23 (500-230807-3)	3/15/23	08:40 Central		Water			X	2	
DUP-01 (500-230807-4)	3/15/23	Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Stephanie Hernandez	3/16/23 1600	EETA	Received by:	3-17-23 1000	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 ICE

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-230807-1

Login Number: 230807
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	1.7
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.	True	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-230807-1

Login Number: 230807
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/17/23 12:29 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	2.2 ICE
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 sample IDs on the containers and the COC.	True	
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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Isotope Dilution Summary

Client: TRC Environmental Corporation
Project/Site: Village of Grafton 197071

Job ID: 500-230807-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
500-230807-1	MW11A-Q1-23	38							
500-230807-2	MW12A-Q1-23	36							
500-230807-3	MW13A-Q1-23	38							
500-230807-4	DUP-01	36							
LCS 480-662001/2-A	Lab Control Sample	42							
LCSD 480-662001/3-A	Lab Control Sample Dup	38							
MB 480-662001/1-A	Method Blank	30							

Surrogate Legend

DXE = 1,4-Dioxane-d8