From: Susan Petrofske
Sent: Wednesday, April 3, 2024 12:20 PM
To: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>
Cc: Kristin Jones (Kristin.Jones@newellco.com) <Kristin.Jones@newellco.com>; Jeanne Tarvin <jtarvin@ramboll.com>
Subject: Soil Sample Results Notification for Former EZ Paintr/Shur-Line in St. Francis (BRRTS #: 02-41-183146)

Paul,

On behalf of Newell Operating Company, attached please find the analytical results for soil samples collected within the building footprint during the week of March 7, 2024 at the former Shur-Line/ Former EZ Paintr Corp site (BRRTS# 02-41-183146) in St. Francis. The additional soil data was collected to support our remedial design work. The purpose of this transmittal is to comply with the sample results notification required under s. NR 716.14 (2), Wis. Adm. Code. Tabulated results and a figure showing the sample locations are attached for your reference. A discussion of these results will be included in the upcoming Remedial Design report. These results are also being shared with the property owner (Phoenix Investors).

Please let us know if you have any questions. A copy of this e-mail (with attachments) will also be uploaded to WDNR portal.

Kind regards
Susan Petrofske

Senior Managing Consultant

D 262-901-3501
M 262-391-5990
spetrofske@ramboll.com

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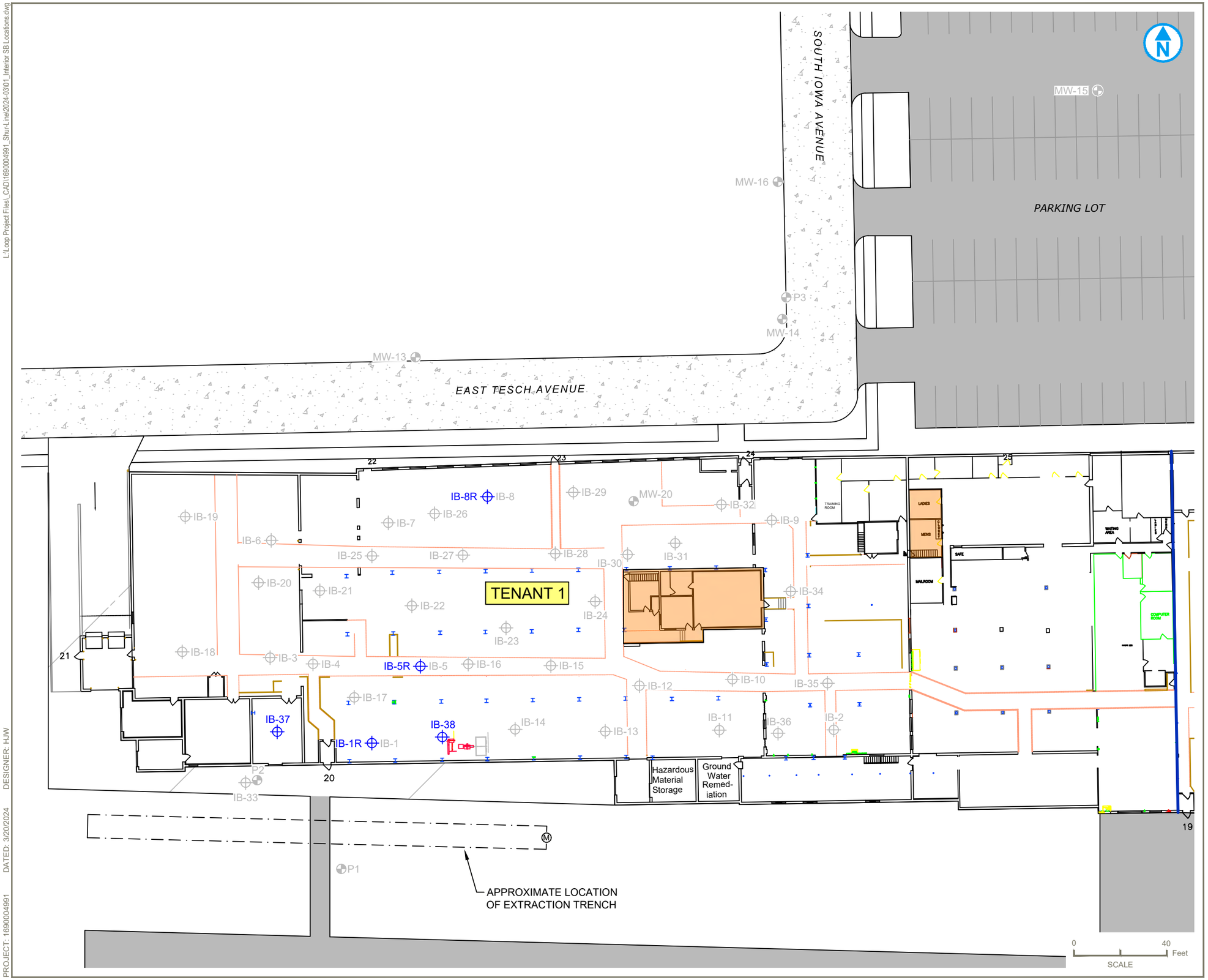

INTERIOR BASEMENT LOCATION

WALL SEPARATING TENANT SPACES

INTERIOR SOIL BORINGS

MONITORING WELL

MANHOLE

INTERIOR SOIL BORINGS - MARCH 7, 2024

Note:
Soil boring locations are approximate.

INTERIOR SOIL BORING LOCATIONS - MARCH 7, 2024

FORMER EZ PAINTR/SHUR-LINE FACILITY
4051 SOUTH IOWA AVENUE
ST. FRANCIS, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

L:\Loop Project Files_CAD\1690004991_Shur-Line\2024-03\01_Interior SB Locations.dwg

PROJECT: 1690004991 DATED: 3/20/2024 DESIGNER: HJW

Table 1. VOC Soil Analytical Results - March 2024
Former EZ Paintr/Shur-Line Facility
St. Francis, Wisconsin
Ramboll Project No. 1690004991

DRAFT

Parameters	Soil RCLs			IB-37 (2-3)	IB-37 (6-7)	IB-37 (14-15)	IB-37 (22-23)	IB-37 (29-30)
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway	3/7/2024	3/7/2024	3/7/2024	3/7/2024	3/7/2024
VOCs (mg/kg)								
sec-Butylbenzene	145	145	--	<0.028 *+	0.060 J *+	<0.027 *+	<0.028 *+	<0.029 *+
Chlorobenzene	370	761	0.1358	<0.027	**0.300 C**	<0.026	<0.027	<0.028
Chloroform	0.454	1.98	0.0033	0.029 J b	<0.024	<0.025	<0.026	0.033 J b
1,2-Dichlorobenzene	376	376	1.1680	<0.023	0.100	<0.023	<0.023	<0.024
1,4-Dichlorobenzene	3.74	16.4	0.1440	<0.025	**0.450 C**	<0.025	<0.025	<0.026
1,1-Dichloroethene	320	1,190	0.0050	<0.027	<0.026	<0.027	<0.027	<0.028
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.028	<0.027	<0.028	<0.028	<0.03
Methylene chloride	61.8	1,150	0.0026	<0.11	<0.11	<0.11	<0.11	<0.12
Naphthalene	5.52	24.1	0.6582	<0.023	0.036 J	<0.023	<0.023	<0.024
Tetrachloroethene	33	145	0.0045	**0.270 C**	<0.024	<0.025	<0.026	<0.027
Toluene	818	818	1.1072	<0.01	<0.0096	<0.01	<0.01	<0.011
Trichloroethene	1.30	8.41	0.0036	**0.032 J C**	**0.011 J C**	<0.011	**0.017 J C**	<0.012
1,2,4-Trimethylbenzene[1]	219	219	0.4939	<0.025	<0.024	<0.024	<0.025	<0.026
Vinyl chloride	0.0668	2.08	0.0001	<0.018	<0.017	<0.018	<0.018	<0.019

Notes:

Only detected parameters are displayed in the table above.
VOCs = Volatile Organic Compounds
RCL = Residual Contaminant Level
mg/kg = milligrams per kilogram

[1] Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.
C Parameter exceeds NR 720 RCL for Groundwater Pathway.
b Compound was found in the blank and sample.
J Estimated concentration at or above the LOD and below the LOQ.
*+ Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits, high biased.
-- No RCL established.
Soil RCLs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2018).

Table 1. VOC Soil Analytical Results - March 2024
Former EZ Paintr/Shur-Line Facility
St. Francis, Wisconsin
Ramboll Project No. 1690004991

DRAFT

Parameters	Soil RCLs			IB-38 (2-3)	IB-38 (6-7)	IB-38 (14-15)	IB-38 (22-23)	IB-38 (29-30)
	Non-Industrial Direct Contact	Industrial Direct Contact	Groundwater Pathway	3/7/2024	3/7/2024	3/7/2024	3/7/2024	3/7/2024
VOCs (mg/kg)								
sec-Butylbenzene	145	145	--	<0.027 *+	<0.027 *+	<0.26 *+	<0.036 *+	<0.029 *+
Chlorobenzene	370	761	0.1358	<0.026	<0.027	<0.25	<0.035	<0.028
Chloroform	0.454	1.98	0.0033	<0.025	0.028 J b	<0.24	<0.033	0.028 J b
1,2-Dichlorobenzene	376	376	1.1680	<0.023	<0.023	<0.22	<0.03	<0.024
1,4-Dichlorobenzene	3.74	16.4	0.1440	<0.025	<0.025	<0.24	<0.033	<0.026
1,1-Dichloroethene	320	1,190	0.0050	<0.027	<0.027	**0.300 J C**	<0.035	<0.028
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.028	**4.30 C**	**14.0 C**	<0.037	<0.029
Methylene chloride	61.8	1,150	0.0026	<0.11	**0.160 J C**	<1.1	<0.15	<0.12
Naphthalene	5.52	24.1	0.6582	<0.023	0.029 J	<0.22	<0.03	<0.024
Tetrachloroethene	33	145	0.0045	<0.025	**0.550 C**	<0.24	<0.033	**0.046 J C**
Toluene	818	818	1.1072	<0.01	0.011 J	0.120 J	<0.013	0.012 J
Trichloroethene	1.30	8.41	0.0036	**0.200 C**	**100 C**	**360 C**	**0.110 C**	**0.025 J C**
1,2,4-Trimethylbenzene[1]	219	219	0.4939	<0.024	0.034 J	<0.24	<0.032	<0.026
Vinyl chloride	0.0668	2.08	0.0001	<0.018	**0.021 J C**	<0.17	<0.024	<0.019

Notes:

Only detected parameters are displayed in the table above.
VOCs = Volatile Organic Compounds
RCL = Residual Contaminant Level
mg/kg = milligrams per kilogram

[1] Groundwater Pathway RCL listed is for 1,2,4- and 1,3,5-Trimethylbenzenes combined.
C Parameter exceeds NR 720 RCL for Groundwater Pathway.
b Compound was found in the blank and sample.
J Estimated concentration at or above the LOD and below the LOQ.
*+ Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits, high biased.
-- No RCL established.
Soil RCLs established by the WDNR RR program using the EPA's RSL web-calculator with WAC NR 720 default parameters (WDNR PUB-RR-890, June 2014 - updated RCL spreadsheet, December 2018).

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ANALYTICAL REPORT

PREPARED FOR

Attn: Susan Petrofske
Ramboll Americas Engineering Solutions
234 W. Florida Street
Fifth Floor
Milwaukee, Wisconsin 53204

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JOB DESCRIPTION

Newell / Shurline – St. Francis

JOB NUMBER

500-247226-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

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.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

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

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Job Narrative
500-247226-1

Receipt
The samples were received on 03/09/24 09:40. 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 2.0º C.

GC/MS VOA
Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. IB-38 (22-23) (500-247226-4)

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: IB-38 (6-7) (500-247226-2) and IB-38 (14-15) (500-247226-3). Elevated reporting limits (RLs) are provided.

Method 8260D: The laboratory control sample (LCS) for 757568 recovered outside control limits for tert-Butylbenzene, sec-Butylbenzene, Isopropylbenzene, 1,3,5-Trimethylbenzene, and 1,1-Dichloropropene. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported.IB-38 (2-3) (500-247226-1), IB-38 (6-7) (500-247226-2), IB-38 (14-15) (500-247226-3), IB-38 (22-23) (500-247226-4), IB-38 (29-30) (500-247226-5), IB-37 (2-3) (500-247226-18), IB-37 (6-7) (500-247226-19), IB-37 (14-15) (500-247226-20), IB-37 (22-23) (500-247226-21), IB-37 (29-30) (500-247226-22) and DUP (500-247226-23)

Method 8260D: Methylene chloride was detected in the following items: IB-38 (6-7) (500-247226-2). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260D: The method blank for 757838, 757987 and 757787 contained Chloroform above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

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

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-38 (2-3) — Lab Sample ID: 500-247226-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	200		34	11	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: IB-38 (6-7) — Lab Sample ID: 500-247226-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	34	J	69	25	ug/Kg	50	☼	8260D	Total/NA
Chloroform	28	J B	140	25	ug/Kg	50	☼	8260D	Total/NA
cis-1,2-Dichloroethene	4300		69	28	ug/Kg	50	☼	8260D	Total/NA
Methylene Chloride	160	J	340	110	ug/Kg	50	☼	8260D	Total/NA
Naphthalene	29	J	69	23	ug/Kg	50	☼	8260D	Total/NA
Tetrachloroethene	550		69	25	ug/Kg	50	☼	8260D	Total/NA
Toluene	11	J	17	10	ug/Kg	50	☼	8260D	Total/NA
Vinyl chloride	21	J	69	18	ug/Kg	50	☼	8260D	Total/NA
Trichloroethene - DL	100000		340	110	ug/Kg	500	☼	8260D	Total/NA

Client Sample ID: IB-38 (14-15) — Lab Sample ID: 500-247226-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	300	J	660	260	ug/Kg	500	☼	8260D	Total/NA
cis-1,2-Dichloroethene	14000		660	270	ug/Kg	500	☼	8260D	Total/NA
Toluene	120	J	160	97	ug/Kg	500	☼	8260D	Total/NA
Trichloroethene - DL	360000		3300	1100	ug/Kg	5000	☼	8260D	Total/NA

Client Sample ID: IB-38 (22-23) — Lab Sample ID: 500-247226-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	110		45	15	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: IB-38 (29-30) — Lab Sample ID: 500-247226-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	28	J B	140	27	ug/Kg	50	☼	8260D	Total/NA
Tetrachloroethene	46	J	72	27	ug/Kg	50	☼	8260D	Total/NA
Toluene	12	J	18	11	ug/Kg	50	☼	8260D	Total/NA
Trichloroethene	25	J	36	12	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: IB-1R (2-3) — Lab Sample ID: 500-247226-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.34		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-1R (9-10) — Lab Sample ID: 500-247226-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.41		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-1R (14-15) — Lab Sample ID: 500-247226-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.60		0.058	0.058	%	1		D2974-87	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-1R (20-21) — Lab Sample ID: 500-247226-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.44		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-5R (2-3) — Lab Sample ID: 500-247226-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.78		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-5R (9-10) — Lab Sample ID: 500-247226-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.33		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-5R (14-15) — Lab Sample ID: 500-247226-12

No Detections.

Client Sample ID: IB-5R (20-21) — Lab Sample ID: 500-247226-13

No Detections.

Client Sample ID: IB-8R (3-4) — Lab Sample ID: 500-247226-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.73		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-8R (7-8) — Lab Sample ID: 500-247226-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.24		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-8R (14-15) — Lab Sample ID: 500-247226-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.41		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-8R (20-21) — Lab Sample ID: 500-247226-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
FOC by Nelson and Sommers (0.58 factor)	0.21		0.058	0.058	%	1		D2974-87	Total/NA

Client Sample ID: IB-37 (2-3) — Lab Sample ID: 500-247226-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	29	J B	140	26	ug/Kg	50	☼	8260D	Total/NA
Tetrachloroethene	270		70	26	ug/Kg	50	☼	8260D	Total/NA
Trichloroethene	32	J	35	11	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: IB-37 (6-7) — Lab Sample ID: 500-247226-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	100		66	22	ug/Kg	50	☼	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IB-37 (6-7) (Continued) — Lab Sample ID: 500-247226-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	450		66	24	ug/Kg	50	☼	8260D	Total/NA
Chlorobenzene	300		66	25	ug/Kg	50	☼	8260D	Total/NA
Naphthalene	36	J	66	22	ug/Kg	50	☼	8260D	Total/NA
sec-Butylbenzene	60	J *+	66	26	ug/Kg	50	☼	8260D	Total/NA
Trichloroethene	11	J	33	11	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: IB-37 (14-15) — Lab Sample ID: 500-247226-20

No Detections.

Client Sample ID: IB-37 (22-23) — Lab Sample ID: 500-247226-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	17	J	35	11	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: IB-37 (29-30) — Lab Sample ID: 500-247226-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	33	J B	140	27	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: DUP — Lab Sample ID: 500-247226-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	40	J B	120	23	ug/Kg	50	☼	8260D	Total/NA
Tetrachloroethene	530		62	23	ug/Kg	50	☼	8260D	Total/NA
Trichloroethene	150		31	10	ug/Kg	50	☼	8260D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-247226-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.32	J	0.50	0.16	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
D2974-87	Ash Content	ASTM	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-247226-1	IB-38 (2-3)	Solid	03/07/24 11:10	03/09/24 09:40
500-247226-2	IB-38 (6-7)	Solid	03/07/24 11:15	03/09/24 09:40
500-247226-3	IB-38 (14-15)	Solid	03/07/24 11:20	03/09/24 09:40
500-247226-4	IB-38 (22-23)	Solid	03/07/24 11:30	03/09/24 09:40
500-247226-5	IB-38 (29-30)	Solid	03/07/24 11:35	03/09/24 09:40
500-247226-6	IB-1R (2-3)	Solid	03/07/24 12:30	03/09/24 09:40
500-247226-7	IB-1R (9-10)	Solid	03/07/24 12:35	03/09/24 09:40
500-247226-8	IB-1R (14-15)	Solid	03/07/24 12:40	03/09/24 09:40
500-247226-9	IB-1R (20-21)	Solid	03/07/24 12:45	03/09/24 09:40
500-247226-10	IB-5R (2-3)	Solid	03/07/24 12:50	03/09/24 09:40
500-247226-11	IB-5R (9-10)	Solid	03/07/24 12:55	03/09/24 09:40
500-247226-12	IB-5R (14-15)	Solid	03/07/24 13:00	03/09/24 09:40
500-247226-13	IB-5R (20-21)	Solid	03/07/24 13:05	03/09/24 09:40
500-247226-14	IB-8R (3-4)	Solid	03/07/24 14:00	03/09/24 09:40
500-247226-15	IB-8R (7-8)	Solid	03/07/24 14:05	03/09/24 09:40
500-247226-16	IB-8R (14-15)	Solid	03/07/24 14:10	03/09/24 09:40
500-247226-17	IB-8R (20-21)	Solid	03/07/24 14:15	03/09/24 09:40
500-247226-18	IB-37 (2-3)	Solid	03/07/24 14:50	03/09/24 09:40
500-247226-19	IB-37 (6-7)	Solid	03/07/24 14:55	03/09/24 09:40
500-247226-20	IB-37 (14-15)	Solid	03/07/24 15:00	03/09/24 09:40
500-247226-21	IB-37 (22-23)	Solid	03/07/24 15:05	03/09/24 09:40
500-247226-22	IB-37 (29-30)	Solid	03/07/24 15:10	03/09/24 09:40
500-247226-23	DUP	Solid	03/07/24 14:40	03/09/24 09:40
500-247226-24	Trip Blank	Water	03/07/24 00:00	03/09/24 09:40

Client Sample ID: IB-38 (2-3)
Lab Sample ID: 500-247226-1

Date Collected: 03/07/24 11:10
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 85.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		68	31	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,1-Dichloropropene	<20	*+	68	20	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,3,5-Trimethylbenzene	<26	*+	68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Benzene	<10		17	10	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Bromobenzene	<24		68	24	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Bromochloromethane	<29		68	29	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Bromoform	<33		68	33	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Bromomethane	<54		200	54	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Chlorobenzene	<26		68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Chloroethane	<34		340	34	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Chloroform	<25		140	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Chloromethane	<22		340	22	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Dibromomethane	<18		68	18	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Dichlorodifluoromethane	<46		200	46	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Ethylbenzene	<12		17	12	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Isopropyl ether	<19		68	19	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Isopropylbenzene	<26	*+	68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Naphthalene	<23		68	23	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50

Client Sample ID: IB-38 (2-3)
Lab Sample ID: 500-247226-1

Date Collected: 03/07/24 11:10
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27	*+	68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Styrene	<26		68	26	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
tert-Butylbenzene	<27	*+	68	27	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Toluene	<10		17	10	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Trichloroethene	**200**		34	11	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Vinyl chloride	<18		68	18	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/07/24 11:10	03/12/24 15:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/07/24 11:10*	*03/12/24 15:31*	*50*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*	*03/07/24 11:10*	*03/12/24 15:31*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*03/07/24 11:10*	*03/12/24 15:31*	*50*
Toluene-d8 (Surr)	*108*		*75 - 120*	*03/07/24 11:10*	*03/12/24 15:31*	*50*

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-38 (6-7)

Date Collected: 03/07/24 11:15
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-2

Matrix: Solid
Percent Solids: 84.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,1,2,2-Tetrachloroethane	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,1-Dichloropropene	<20	*+	69	20	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2,3-Trichlorobenzene	<31		69	31	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2,4-Trimethylbenzene	**34**	**J**	69	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2-Dibromoethane	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,2-Dichloropropane	<29		69	29	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,3,5-Trimethylbenzene	<26	*+	69	26	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,3-Dichlorobenzene	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
2,2-Dichloropropane	<31		340	31	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Benzene	<10		17	10	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Bromobenzene	<24		69	24	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Bromochloromethane	<29		69	29	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Bromodichloromethane	<26		69	26	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Bromoform	<33		69	33	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Bromomethane	<55		210	55	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Carbon tetrachloride	<26		69	26	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Chlorobenzene	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Chloroethane	<35		340	35	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Chloroform	**28**	**J B**	140	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Chloromethane	<22		340	22	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
cis-1,2-Dichloroethene	**4300**		69	28	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Dibromochloromethane	<34		69	34	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Dibromomethane	<19		69	19	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Dichlorodifluoromethane	<46		210	46	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Isopropyl ether	<19		69	19	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Isopropylbenzene	<26	*+	69	26	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Methylene Chloride	**160**	**J**	340	110	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Naphthalene	**29**	**J**	69	23	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
N-Propylbenzene	<28		69	28	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
p-Isopropyltoluene	<25		69	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-38 (6-7)

Date Collected: 03/07/24 11:15
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-2

Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27	*+	69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Styrene	<27		69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
tert-Butylbenzene	<27	*+	69	27	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Tetrachloroethene	**550**		69	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Toluene	**11**	**J**	17	10	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Trichlorofluoromethane	<29		69	29	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Vinyl chloride	**21**	**J**	69	18	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/07/24 11:15	03/19/24 17:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*03/07/24 11:15*	*03/19/24 17:04*	*50*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*	*03/07/24 11:15*	*03/19/24 17:04*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*03/07/24 11:15*	*03/19/24 17:04*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*03/07/24 11:15*	*03/19/24 17:04*	*50*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**100000**		340	110	ug/Kg	☼	03/07/24 11:15	03/19/24 17:28	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*03/07/24 11:15*	*03/19/24 17:28*	*500*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*03/07/24 11:15*	*03/19/24 17:28*	*500*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*03/07/24 11:15*	*03/19/24 17:28*	*500*
Toluene-d8 (Surr)	*95*		*75 - 120*	*03/07/24 11:15*	*03/19/24 17:28*	*500*

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-38 (14-15)

Date Collected: 03/07/24 11:20
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-3

Matrix: Solid
Percent Solids: 86.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<300		660	300	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,1,1-Trichloroethane	<250		660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,1,2,2-Tetrachloroethane	<260		660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,1,2-Trichloroethane	<230		660	230	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,1-Dichloroethane	<270		660	270	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,1-Dichloroethene	**300**	**J**	660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,1-Dichloropropene	<200	*+	660	200	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2,3-Trichlorobenzene	<300		660	300	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2,3-Trichloropropane	<270		1300	270	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2,4-Trichlorobenzene	<230		660	230	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2,4-Trimethylbenzene	<240		660	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2-Dibromo-3-Chloropropane	<1300		3300	1300	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2-Dibromoethane	<250		660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2-Dichlorobenzene	<220		660	220	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2-Dichloroethane	<260		660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,2-Dichloropropane	<280		660	280	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,3,5-Trimethylbenzene	<250	*+	660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,3-Dichlorobenzene	<260		660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,3-Dichloropropane	<240		660	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
1,4-Dichlorobenzene	<240		660	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
2,2-Dichloropropane	<290		3300	290	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
2-Chlorotoluene	<210		660	210	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
4-Chlorotoluene	<230		660	230	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Benzene	<96		160	96	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Bromobenzene	<230		660	230	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Bromochloromethane	<280		660	280	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Bromodichloromethane	<250		660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Bromoform	<320		660	320	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Bromomethane	<530		2000	530	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Carbon tetrachloride	<250		660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Chlorobenzene	<250		660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Chloroethane	<330		3300	330	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Chloroform	<240		1300	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Chloromethane	<210		3300	210	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
cis-1,2-Dichloroethene	**14000**		660	270	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
cis-1,3-Dichloropropene	<270		660	270	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Dibromochloromethane	<320		660	320	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Dibromomethane	<180		660	180	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Dichlorodifluoromethane	<440		2000	440	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Ethylbenzene	<120		160	120	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Hexachlorobutadiene	<290		660	290	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Isopropyl ether	<180		660	180	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Isopropylbenzene	<250	*+	660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Methyl tert-butyl ether	<260		660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Methylene Chloride	<1100		3300	1100	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Naphthalene	<220		660	220	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
n-Butylbenzene	<260		660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
N-Propylbenzene	<270		660	270	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
p-Isopropyltoluene	<240		660	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-38 (14-15)

Date Collected: 03/07/24 11:20
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-3

Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<260	*+	660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Styrene	<250		660	250	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
tert-Butylbenzene	<260	*+	660	260	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Tetrachloroethene	<240		660	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Toluene	**120**	**J**	160	97	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
trans-1,2-Dichloroethene	<230		660	230	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
trans-1,3-Dichloropropene	<240		660	240	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Trichlorofluoromethane	<280		660	280	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Vinyl chloride	<170		660	170	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500
Xylenes, Total	<150		330	150	ug/Kg	☼	03/07/24 11:20	03/12/24 20:01	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*03/07/24 11:20*	*03/12/24 20:01*	*500*
4-Bromofluorobenzene (Surr)	*124*		*72 - 124*	*03/07/24 11:20*	*03/12/24 20:01*	*500*
Dibromofluoromethane (Surr)	*102*		*75 - 120*	*03/07/24 11:20*	*03/12/24 20:01*	*500*
Toluene-d8 (Surr)	*109*		*75 - 120*	*03/07/24 11:20*	*03/12/24 20:01*	*500*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**360000**		3300	1100	ug/Kg	☼	03/07/24 11:20	03/13/24 18:56	5000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*03/07/24 11:20*	*03/13/24 18:56*	*5000*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*	*03/07/24 11:20*	*03/13/24 18:56*	*5000*
Dibromofluoromethane (Surr)	*104*		*75 - 120*	*03/07/24 11:20*	*03/13/24 18:56*	*5000*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/07/24 11:20*	*03/13/24 18:56*	*5000*

Client Sample ID: IB-38 (22-23)
Lab Sample ID: 500-247226-4

Date Collected: 03/07/24 11:30
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<42		90	42	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,1,1-Trichloroethane	<34		90	34	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,1,2,2-Tetrachloroethane	<36		90	36	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,1,2-Trichloroethane	<32		90	32	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,1-Dichloroethane	<37		90	37	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,1-Dichloroethene	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,1-Dichloropropene	<27	*+	90	27	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2,3-Trichlorobenzene	<41		90	41	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2,3-Trichloropropane	<37		180	37	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2,4-Trichlorobenzene	<31		90	31	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2,4-Trimethylbenzene	<32		90	32	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2-Dibromo-3-Chloropropane	<180		450	180	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2-Dibromoethane	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2-Dichlorobenzene	<30		90	30	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2-Dichloroethane	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,2-Dichloropropane	<39		90	39	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,3,5-Trimethylbenzene	<34	*+	90	34	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,3-Dichlorobenzene	<36		90	36	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,3-Dichloropropane	<33		90	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
1,4-Dichlorobenzene	<33		90	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
2,2-Dichloropropane	<40		450	40	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
2-Chlorotoluene	<28		90	28	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
4-Chlorotoluene	<32		90	32	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Benzene	<13		23	13	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Bromobenzene	<32		90	32	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Bromochloromethane	<39		90	39	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Bromodichloromethane	<33		90	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Bromoform	<44		90	44	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Bromomethane	<72		270	72	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Carbon tetrachloride	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Chlorobenzene	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Chloroethane	<45		450	45	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Chloroform	<33		180	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Chloromethane	<29		450	29	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
cis-1,2-Dichloroethene	<37		90	37	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
cis-1,3-Dichloropropene	<37		90	37	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Dibromochloromethane	<44		90	44	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Dibromomethane	<24		90	24	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Dichlorodifluoromethane	<61		270	61	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Ethylbenzene	<16		23	16	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Hexachlorobutadiene	<40		90	40	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Isopropyl ether	<25		90	25	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Isopropylbenzene	<35	*+	90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Methyl tert-butyl ether	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Methylene Chloride	<150		450	150	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Naphthalene	<30		90	30	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
n-Butylbenzene	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
N-Propylbenzene	<37		90	37	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
p-Isopropyltoluene	<33		90	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50

Client Sample ID: IB-38 (22-23)
Lab Sample ID: 500-247226-4

Date Collected: 03/07/24 11:30
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<36	*+	90	36	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Styrene	<35		90	35	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
tert-Butylbenzene	<36	*+	90	36	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Tetrachloroethene	<33		90	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Toluene	<13		23	13	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
trans-1,2-Dichloroethene	<32		90	32	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
trans-1,3-Dichloropropene	<33		90	33	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Trichloroethene	**110**		45	15	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Trichlorofluoromethane	<39		90	39	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Vinyl chloride	<24		90	24	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50
Xylenes, Total	<20		45	20	ug/Kg	☼	03/07/24 11:30	03/12/24 15:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/07/24 11:30*	*03/12/24 15:55*	*50*
4-Bromofluorobenzene (Surr)	*120*		*72 - 124*	*03/07/24 11:30*	*03/12/24 15:55*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*03/07/24 11:30*	*03/12/24 15:55*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*03/07/24 11:30*	*03/12/24 15:55*	*50*

Client Sample ID: IB-38 (29-30)

Date Collected: 03/07/24 11:35
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-5

Matrix: Solid
Percent Solids: 87.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,1-Dichloroethane	<30		72	30	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,1-Dichloroethene	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,1-Dichloropropene	<22	*+	72	22	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,3,5-Trimethylbenzene	<27	*+	72	27	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
2,2-Dichloropropane	<32		360	32	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Benzene	<11		18	11	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Bromobenzene	<26		72	26	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Bromochloromethane	<31		72	31	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Bromoform	<35		72	35	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Bromomethane	<57		220	57	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Carbon tetrachloride	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Chlorobenzene	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Chloroethane	<36		360	36	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Chloroform	**28**	**J B**	140	27	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Chloromethane	<23		360	23	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
cis-1,2-Dichloroethene	<29		72	29	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Dibromomethane	<19		72	19	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Dichlorodifluoromethane	<49		220	49	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Ethylbenzene	<13		18	13	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Isopropyl ether	<20		72	20	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Isopropylbenzene	<28	*+	72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Methylene Chloride	<120		360	120	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Naphthalene	<24		72	24	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50

Client Sample ID: IB-38 (29-30)
Lab Sample ID: 500-247226-5

Date Collected: 03/07/24 11:35
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<29	*+	72	29	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Styrene	<28		72	28	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
tert-Butylbenzene	<29	*+	72	29	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Tetrachloroethene	**46**	**J**	72	27	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Toluene	**12**	**J**	18	11	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Trichloroethene	**25**	**J**	36	12	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Trichlorofluoromethane	<31		72	31	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Vinyl chloride	<19		72	19	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50
Xylenes, Total	<16		36	16	ug/Kg	☼	03/07/24 11:35	03/13/24 18:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*	*03/07/24 11:35*	*03/13/24 18:07*	*50*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*03/07/24 11:35*	*03/13/24 18:07*	*50*
Dibromofluoromethane (Surr)	*102*		*75 - 120*	*03/07/24 11:35*	*03/13/24 18:07*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/07/24 11:35*	*03/13/24 18:07*	*50*

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-1R (2-3)

Date Collected: 03/07/24 12:30
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-6

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.34		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-1R (9-10)

Date Collected: 03/07/24 12:35
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-7

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.41		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-1R (14-15)

Date Collected: 03/07/24 12:40
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-8

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.60		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-1R (20-21)

Date Collected: 03/07/24 12:45
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-9

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.44		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-5R (2-3)

Date Collected: 03/07/24 12:50
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-10

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.78		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-5R (9-10)

Date Collected: 03/07/24 12:55
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-11

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.33		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-5R (14-15)

Date Collected: 03/07/24 13:00
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-12

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	<0.058		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-5R (20-21)

Lab Sample ID: 500-247226-13

Date Collected: 03/07/24 13:05

Matrix: Solid

Date Received: 03/09/24 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	<0.058		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-8R (3-4)

Date Collected: 03/07/24 14:00
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-14

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.73		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-8R (7-8)

Date Collected: 03/07/24 14:05
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-15

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.24		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-8R (14-15)

Date Collected: 03/07/24 14:10
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-16

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.41		0.058	0.058	%			03/12/24 08:34	1

Client Sample Results

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-8R (20-21)

Date Collected: 03/07/24 14:15
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-17

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
FOC by Nelson and Sommers (0.58 factor) (ASTM D2974-87)	0.21		0.058	0.058	%			03/12/24 08:34	1

Client Sample ID: IB-37 (2-3)
Lab Sample ID: 500-247226-18

Date Collected: 03/07/24 14:50
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		70	32	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,1,1-Trichloroethane	<26		70	26	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,1,2-Trichloroethane	<24		70	24	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,1-Dichloroethane	<29		70	29	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,1-Dichloroethene	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,1-Dichloropropene	<21	*+	70	21	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2-Dibromoethane	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2-Dichloroethane	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,2-Dichloropropane	<30		70	30	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,3,5-Trimethylbenzene	<26	*+	70	26	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,3-Dichloropropane	<25		70	25	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
1,4-Dichlorobenzene	<25		70	25	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
2,2-Dichloropropane	<31		350	31	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
2-Chlorotoluene	<22		70	22	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
4-Chlorotoluene	<24		70	24	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Benzene	<10		17	10	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Bromobenzene	<25		70	25	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Bromochloromethane	<30		70	30	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Bromodichloromethane	<26		70	26	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Bromoform	<34		70	34	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Bromomethane	<55		210	55	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Carbon tetrachloride	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Chlorobenzene	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Chloroethane	<35		350	35	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Chloroform	**29**	**J B**	140	26	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Chloromethane	<22		350	22	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
cis-1,2-Dichloroethene	<28		70	28	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Dibromochloromethane	<34		70	34	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Dibromomethane	<19		70	19	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Hexachlorobutadiene	<31		70	31	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Isopropyl ether	<19		70	19	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Isopropylbenzene	<27	*+	70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Methyl tert-butyl ether	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Methylene Chloride	<110		350	110	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Naphthalene	<23		70	23	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
n-Butylbenzene	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
N-Propylbenzene	<29		70	29	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
p-Isopropyltoluene	<25		70	25	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50

Client Sample ID: IB-37 (2-3)
Lab Sample ID: 500-247226-18

Date Collected: 03/07/24 14:50
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28	*+	70	28	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Styrene	<27		70	27	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
tert-Butylbenzene	<28	*+	70	28	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Tetrachloroethene	**270**		70	26	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Toluene	<10		17	10	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
trans-1,2-Dichloroethene	<24		70	24	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Trichloroethene	**32**	**J**	35	11	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Trichlorofluoromethane	<30		70	30	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Vinyl chloride	<18		70	18	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50
Xylenes, Total	<15		35	15	ug/Kg	☼	03/07/24 14:50	03/13/24 18:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*03/07/24 14:50*	*03/13/24 18:31*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*03/07/24 14:50*	*03/13/24 18:31*	*50*
Dibromofluoromethane (Surr)	*100*		*75 - 120*	*03/07/24 14:50*	*03/13/24 18:31*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*03/07/24 14:50*	*03/13/24 18:31*	*50*

Client Sample ID: IB-37 (6-7)
Lab Sample ID: 500-247226-19

Date Collected: 03/07/24 14:55
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 86.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,1-Dichloropropene	<20	*+	66	20	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2,4-Trichlorobenzene	<22		66	22	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2-Dichlorobenzene	**100**		66	22	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,3,5-Trimethylbenzene	<25	*+	66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
1,4-Dichlorobenzene	**450**		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
2,2-Dichloropropane	<29		330	29	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Benzene	<9.6		16	9.6	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Bromobenzene	<23		66	23	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Bromochloromethane	<28		66	28	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Bromodichloromethane	<24		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Bromoform	<32		66	32	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Bromomethane	<52		200	52	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Chlorobenzene	**300**		66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Chloroethane	<33		330	33	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Chloroform	<24		130	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Chloromethane	<21		330	21	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Dibromomethane	<18		66	18	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Ethylbenzene	<12		16	12	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Isopropyl ether	<18		66	18	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Isopropylbenzene	<25	*+	66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Methylene Chloride	<110		330	110	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Naphthalene	**36**	**J**	66	22	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
n-Butylbenzene	<25		66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50

Client Sample ID: IB-37 (6-7)
Lab Sample ID: 500-247226-19

Date Collected: 03/07/24 14:55
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**60**	**J *+**	66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Styrene	<25		66	25	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
tert-Butylbenzene	<26	*+	66	26	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Toluene	<9.6		16	9.6	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Trichloroethene	**11**	**J**	33	11	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Vinyl chloride	<17		66	17	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50
Xylenes, Total	<14		33	14	ug/Kg	☼	03/07/24 14:55	03/12/24 17:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/07/24 14:55*	*03/12/24 17:09*	*50*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*	*03/07/24 14:55*	*03/12/24 17:09*	*50*
Dibromofluoromethane (Surr)	*102*		*75 - 120*	*03/07/24 14:55*	*03/12/24 17:09*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*03/07/24 14:55*	*03/12/24 17:09*	*50*

Client Sample ID: IB-37 (14-15)
Lab Sample ID: 500-247226-20

Date Collected: 03/07/24 15:00
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		68	32	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,1-Dichloropropene	<20	*+	68	20	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,3,5-Trimethylbenzene	<26	*+	68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
2,2-Dichloropropane	<30		340	30	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Benzene	<10		17	10	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Bromobenzene	<24		68	24	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Bromochloromethane	<29		68	29	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Bromoform	<33		68	33	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Bromomethane	<54		200	54	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Chlorobenzene	<26		68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Chloroethane	<34		340	34	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Chloroform	<25		140	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Chloromethane	<22		340	22	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Dibromomethane	<18		68	18	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Dichlorodifluoromethane	<46		200	46	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Ethylbenzene	<12		17	12	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Isopropyl ether	<19		68	19	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Isopropylbenzene	<26	*+	68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Methylene Chloride	<110		340	110	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Naphthalene	<23		68	23	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50

Client Sample ID: IB-37 (14-15)
Lab Sample ID: 500-247226-20

Date Collected: 03/07/24 15:00
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27	*+	68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Styrene	<26		68	26	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
tert-Butylbenzene	<27	*+	68	27	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Toluene	<10		17	10	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Trichloroethene	<11		34	11	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Vinyl chloride	<18		68	18	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50
Xylenes, Total	<15		34	15	ug/Kg	☼	03/07/24 15:00	03/12/24 17:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*	*03/07/24 15:00*	*03/12/24 17:34*	*50*
4-Bromofluorobenzene (Surr)	*118*		*72 - 124*	*03/07/24 15:00*	*03/12/24 17:34*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*03/07/24 15:00*	*03/12/24 17:34*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*03/07/24 15:00*	*03/12/24 17:34*	*50*

Client Sample ID: IB-37 (22-23)
Lab Sample ID: 500-247226-21

Date Collected: 03/07/24 15:05
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,1,2,2-Tetrachloroethane	<28		69	28	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,1-Dichloropropene	<21	*+	69	21	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2,3-Trichloropropane	<29		140	29	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2-Dibromoethane	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,2-Dichloropropane	<30		69	30	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,3,5-Trimethylbenzene	<26	*+	69	26	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
2,2-Dichloropropane	<31		350	31	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
4-Chlorotoluene	<24		69	24	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Benzene	<10		17	10	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Bromobenzene	<25		69	25	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Bromochloromethane	<30		69	30	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Bromodichloromethane	<26		69	26	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Bromoform	<33		69	33	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Bromomethane	<55		210	55	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Carbon tetrachloride	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Chlorobenzene	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Chloroethane	<35		350	35	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Chloroform	<26		140	26	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Chloromethane	<22		350	22	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Dibromochloromethane	<34		69	34	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Dibromomethane	<19		69	19	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Ethylbenzene	<13		17	13	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Isopropyl ether	<19		69	19	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Isopropylbenzene	<27	*+	69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Methylene Chloride	<110		350	110	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Naphthalene	<23		69	23	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
N-Propylbenzene	<29		69	29	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
p-Isopropyltoluene	<25		69	25	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50

Client Sample ID: IB-37 (22-23)
Lab Sample ID: 500-247226-21

Date Collected: 03/07/24 15:05
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28	*+	69	28	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Styrene	<27		69	27	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
tert-Butylbenzene	<28	*+	69	28	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Tetrachloroethene	<26		69	26	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Toluene	<10		17	10	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Trichloroethene	**17**	**J**	35	11	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Trichlorofluoromethane	<30		69	30	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Vinyl chloride	<18		69	18	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50
Xylenes, Total	<15		35	15	ug/Kg	☼	03/07/24 15:05	03/12/24 17:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*75 - 126*	*03/07/24 15:05*	*03/12/24 17:59*	*50*
4-Bromofluorobenzene (Surr)	*128*	*S1+*	*72 - 124*	*03/07/24 15:05*	*03/12/24 17:59*	*50*
Dibromofluoromethane (Surr)	*100*		*75 - 120*	*03/07/24 15:05*	*03/12/24 17:59*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*03/07/24 15:05*	*03/12/24 17:59*	*50*

Client Sample ID: IB-37 (29-30)

Date Collected: 03/07/24 15:10
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-22

Matrix: Solid
Percent Solids: 82.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		72	33	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,1,1-Trichloroethane	<27		72	27	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,1,2,2-Tetrachloroethane	<29		72	29	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,1,2-Trichloroethane	<25		72	25	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,1-Dichloroethane	<30		72	30	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,1-Dichloroethene	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,1-Dichloropropene	<22	*+	72	22	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2,3-Trichlorobenzene	<33		72	33	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2,3-Trichloropropane	<30		140	30	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2,4-Trichlorobenzene	<25		72	25	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2,4-Trimethylbenzene	<26		72	26	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2-Dibromo-3-Chloropropane	<140		360	140	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2-Dibromoethane	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2-Dichlorobenzene	<24		72	24	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2-Dichloroethane	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,2-Dichloropropane	<31		72	31	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,3,5-Trimethylbenzene	<27	*+	72	27	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,3-Dichlorobenzene	<29		72	29	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,3-Dichloropropane	<26		72	26	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
1,4-Dichlorobenzene	<26		72	26	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
2,2-Dichloropropane	<32		360	32	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
2-Chlorotoluene	<23		72	23	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
4-Chlorotoluene	<25		72	25	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Benzene	<11		18	11	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Bromobenzene	<26		72	26	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Bromochloromethane	<31		72	31	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Bromodichloromethane	<27		72	27	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Bromoform	<35		72	35	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Bromomethane	<58		220	58	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Carbon tetrachloride	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Chlorobenzene	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Chloroethane	<36		360	36	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Chloroform	**33**	**J B**	140	27	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Chloromethane	<23		360	23	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
cis-1,2-Dichloroethene	<30		72	30	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
cis-1,3-Dichloropropene	<30		72	30	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Dibromochloromethane	<35		72	35	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Dibromomethane	<20		72	20	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Dichlorodifluoromethane	<49		220	49	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Ethylbenzene	<13		18	13	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Hexachlorobutadiene	<32		72	32	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Isopropyl ether	<20		72	20	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Isopropylbenzene	<28	*+	72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Methyl tert-butyl ether	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Methylene Chloride	<120		360	120	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Naphthalene	<24		72	24	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
n-Butylbenzene	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
N-Propylbenzene	<30		72	30	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
p-Isopropyltoluene	<26		72	26	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50

Client Sample ID: IB-37 (29-30)
Lab Sample ID: 500-247226-22

Date Collected: 03/07/24 15:10
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<29	*+	72	29	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Styrene	<28		72	28	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
tert-Butylbenzene	<29	*+	72	29	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Tetrachloroethene	<27		72	27	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Toluene	<11		18	11	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
trans-1,2-Dichloroethene	<25		72	25	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
trans-1,3-Dichloropropene	<26		72	26	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Trichloroethene	<12		36	12	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Trichlorofluoromethane	<31		72	31	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Vinyl chloride	<19		72	19	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50
Xylenes, Total	<16		36	16	ug/Kg	☼	03/07/24 15:10	03/12/24 18:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*75 - 126*	*03/07/24 15:10*	*03/12/24 18:23*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*03/07/24 15:10*	*03/12/24 18:23*	*50*
Dibromofluoromethane (Surr)	*105*		*75 - 120*	*03/07/24 15:10*	*03/12/24 18:23*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*03/07/24 15:10*	*03/12/24 18:23*	*50*

Client Sample ID: DUP
Lab Sample ID: 500-247226-23

Date Collected: 03/07/24 14:40
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 88.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,1,1-Trichloroethane	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,1-Dichloroethane	<25		62	25	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,1-Dichloropropene	<18	*+	62	18	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2-Dibromoethane	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,2-Dichloropropane	<27		62	27	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,3,5-Trimethylbenzene	<24	*+	62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,3-Dichloropropane	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
2,2-Dichloropropane	<28		310	28	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
2-Chlorotoluene	<19		62	19	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Benzene	<9.1		16	9.1	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Bromobenzene	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Bromochloromethane	<27		62	27	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Bromodichloromethane	<23		62	23	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Bromoform	<30		62	30	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Bromomethane	<49		190	49	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Chlorobenzene	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Chloroethane	<31		310	31	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Chloroform	**40**	**J B**	120	23	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Chloromethane	<20		310	20	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Dibromochloromethane	<30		62	30	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Dibromomethane	<17		62	17	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Ethylbenzene	<11		16	11	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Isopropyl ether	<17		62	17	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Isopropylbenzene	<24	*+	62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Methyl tert-butyl ether	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Methylene Chloride	<100		310	100	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Naphthalene	<21		62	21	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
p-Isopropyltoluene	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50

Client Sample ID: DUP
Lab Sample ID: 500-247226-23

Date Collected: 03/07/24 14:40
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25	*+	62	25	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Styrene	<24		62	24	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
tert-Butylbenzene	<25	*+	62	25	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Tetrachloroethene	**530**		62	23	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Toluene	<9.1		16	9.1	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
trans-1,3-Dichloropropene	<22		62	22	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Trichloroethene	**150**		31	10	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Trichlorofluoromethane	<27		62	27	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Vinyl chloride	<16		62	16	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50
Xylenes, Total	<14		31	14	ug/Kg	☼	03/07/24 14:40	03/12/24 18:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*	*03/07/24 14:40*	*03/12/24 18:48*	*50*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*03/07/24 14:40*	*03/12/24 18:48*	*50*
Dibromofluoromethane (Surr)	*100*		*75 - 120*	*03/07/24 14:40*	*03/12/24 18:48*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*03/07/24 14:40*	*03/12/24 18:48*	*50*

Client: Ramboll Americas Engineering Solutions
Job ID: 500-247226-1
Project/Site: Newell / Shurline – St. Francis

Client Sample ID: Trip Blank
Lab Sample ID: 500-247226-24

Date Collected: 03/07/24 00:00
Matrix: Water
Date Received: 03/09/24 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/13/24 13:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/13/24 13:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/13/24 13:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/13/24 13:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/13/24 13:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/13/24 13:16	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/13/24 13:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/13/24 13:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/13/24 13:16	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/13/24 13:16	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/13/24 13:16	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/13/24 13:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/13/24 13:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/13/24 13:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/13/24 13:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/13/24 13:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/13/24 13:16	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			03/13/24 13:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/13/24 13:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/13/24 13:16	1
Benzene	<0.15		0.50	0.15	ug/L			03/13/24 13:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/13/24 13:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/13/24 13:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/13/24 13:16	1
Bromoform	<0.48		1.0	0.48	ug/L			03/13/24 13:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/13/24 13:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/13/24 13:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
Chloroethane	<0.51		5.0	0.51	ug/L			03/13/24 13:16	1
Chloroform	<0.37		2.0	0.37	ug/L			03/13/24 13:16	1
Chloromethane	<0.32		5.0	0.32	ug/L			03/13/24 13:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/13/24 13:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/13/24 13:16	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/13/24 13:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/13/24 13:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/13/24 13:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/13/24 13:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/13/24 13:16	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/13/24 13:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/13/24 13:16	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/13/24 13:16	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/13/24 13:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/13/24 13:16	1

Client: Ramboll Americas Engineering Solutions
Job ID: 500-247226-1
Project/Site: Newell / Shurline – St. Francis

Client Sample ID: Trip Blank
Lab Sample ID: 500-247226-24

Date Collected: 03/07/24 00:00
Matrix: Water
Date Received: 03/09/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/13/24 13:16	1
Styrene	<0.39		1.0	0.39	ug/L			03/13/24 13:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/13/24 13:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/13/24 13:16	1
Toluene	<0.15		0.50	0.15	ug/L			03/13/24 13:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/13/24 13:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/13/24 13:16	1
Trichloroethene	**0.32**	**J**	0.50	0.16	ug/L			03/13/24 13:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/13/24 13:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/13/24 13:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/13/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*03/13/24 13:16*	*1*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*03/13/24 13:16*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*03/13/24 13:16*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*03/13/24 13:16*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
S1+	Surrogate recovery exceeds control limits, high biased.

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

GC/MS VOA

Prep Batch: 757568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-1	IB-38 (2-3)	Total/NA	Solid	5035	
500-247226-2 - DL	IB-38 (6-7)	Total/NA	Solid	5035	
500-247226-2	IB-38 (6-7)	Total/NA	Solid	5035	
500-247226-3 - DL	IB-38 (14-15)	Total/NA	Solid	5035	
500-247226-3	IB-38 (14-15)	Total/NA	Solid	5035	
500-247226-4	IB-38 (22-23)	Total/NA	Solid	5035	
500-247226-5	IB-38 (29-30)	Total/NA	Solid	5035	
500-247226-18	IB-37 (2-3)	Total/NA	Solid	5035	
500-247226-19	IB-37 (6-7)	Total/NA	Solid	5035	
500-247226-20	IB-37 (14-15)	Total/NA	Solid	5035	
500-247226-21	IB-37 (22-23)	Total/NA	Solid	5035	
500-247226-22	IB-37 (29-30)	Total/NA	Solid	5035	
500-247226-23	DUP	Total/NA	Solid	5035	
LB3 500-757568/16-A	Method Blank	Total/NA	Solid	5035	
LCS 500-757568/17-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 757787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-1	IB-38 (2-3)	Total/NA	Solid	8260D	757568
500-247226-3	IB-38 (14-15)	Total/NA	Solid	8260D	757568
500-247226-4	IB-38 (22-23)	Total/NA	Solid	8260D	757568
500-247226-19	IB-37 (6-7)	Total/NA	Solid	8260D	757568
500-247226-20	IB-37 (14-15)	Total/NA	Solid	8260D	757568
500-247226-21	IB-37 (22-23)	Total/NA	Solid	8260D	757568
500-247226-22	IB-37 (29-30)	Total/NA	Solid	8260D	757568
500-247226-23	DUP	Total/NA	Solid	8260D	757568
MB 500-757787/8	Method Blank	Total/NA	Solid	8260D	
LCS 500-757787/5	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 757801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-757568/16-A	Method Blank	Total/NA	Solid	8260D	757568
MB 500-757801/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-757568/17-A	Lab Control Sample	Total/NA	Solid	8260D	757568
LCS 500-757801/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 757986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-24	Trip Blank	Total/NA	Water	8260D	
MB 500-757986/6	Method Blank	Total/NA	Water	8260D	
LCS 500-757986/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 757987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-3 - DL	IB-38 (14-15)	Total/NA	Solid	8260D	757568
500-247226-5	IB-38 (29-30)	Total/NA	Solid	8260D	757568
500-247226-18	IB-37 (2-3)	Total/NA	Solid	8260D	757568
MB 500-757987/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-757987/4	Lab Control Sample	Total/NA	Solid	8260D	

QC Association Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

GC/MS VOA

Analysis Batch: 758838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-2	IB-38 (6-7)	Total/NA	Solid	8260D	757568
500-247226-2 - DL	IB-38 (6-7)	Total/NA	Solid	8260D	757568
MB 500-758838/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-758838/4	Lab Control Sample	Total/NA	Solid	8260D	

General Chemistry

Analysis Batch: 757831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-6	IB-1R (2-3)	Total/NA	Solid	D2974-87	
500-247226-7	IB-1R (9-10)	Total/NA	Solid	D2974-87	
500-247226-8	IB-1R (14-15)	Total/NA	Solid	D2974-87	
500-247226-9	IB-1R (20-21)	Total/NA	Solid	D2974-87	
500-247226-10	IB-5R (2-3)	Total/NA	Solid	D2974-87	
500-247226-11	IB-5R (9-10)	Total/NA	Solid	D2974-87	
500-247226-12	IB-5R (14-15)	Total/NA	Solid	D2974-87	
500-247226-13	IB-5R (20-21)	Total/NA	Solid	D2974-87	
500-247226-14	IB-8R (3-4)	Total/NA	Solid	D2974-87	
500-247226-15	IB-8R (7-8)	Total/NA	Solid	D2974-87	
500-247226-16	IB-8R (14-15)	Total/NA	Solid	D2974-87	
500-247226-17	IB-8R (20-21)	Total/NA	Solid	D2974-87	

Analysis Batch: 758387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-1	IB-38 (2-3)	Total/NA	Solid	Moisture	
500-247226-2	IB-38 (6-7)	Total/NA	Solid	Moisture	
500-247226-3	IB-38 (14-15)	Total/NA	Solid	Moisture	
500-247226-4	IB-38 (22-23)	Total/NA	Solid	Moisture	
500-247226-5	IB-38 (29-30)	Total/NA	Solid	Moisture	
500-247226-18	IB-37 (2-3)	Total/NA	Solid	Moisture	
500-247226-19	IB-37 (6-7)	Total/NA	Solid	Moisture	

Analysis Batch: 758445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247226-20	IB-37 (14-15)	Total/NA	Solid	Moisture	
500-247226-21	IB-37 (22-23)	Total/NA	Solid	Moisture	
500-247226-22	IB-37 (29-30)	Total/NA	Solid	Moisture	
500-247226-23	DUP	Total/NA	Solid	Moisture	
500-247226-20 DU	IB-37 (14-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-247226-1	IB-38 (2-3)	122	117	101	108
500-247226-2	IB-38 (6-7)	98	107	91	93
500-247226-2 - DL	IB-38 (6-7)	97	109	91	95
500-247226-3	IB-38 (14-15)	121	124	102	109
500-247226-3 - DL	IB-38 (14-15)	109	110	104	101
500-247226-4	IB-38 (22-23)	122	120	101	107
500-247226-5	IB-38 (29-30)	105	105	102	101
500-247226-18	IB-37 (2-3)	108	106	100	102
500-247226-19	IB-37 (6-7)	122	109	102	97
500-247226-20	IB-37 (14-15)	122	118	101	104
500-247226-21	IB-37 (22-23)	124	128 S1+	100	107
500-247226-22	IB-37 (29-30)	125	106	105	107
500-247226-23	DUP	120	105	100	107
LB3 500-757568/16-A	Method Blank	106	110	97	106
LCS 500-757568/17-A	Lab Control Sample	107	103	101	105
LCS 500-757787/5	Lab Control Sample	122	102	105	107
LCS 500-757801/4	Lab Control Sample	108	105	99	103
LCS 500-757987/4	Lab Control Sample	103	104	100	106
LCS 500-758838/4	Lab Control Sample	95	101	93	94
MB 500-757787/8	Method Blank	126	111	98	108
MB 500-757801/6	Method Blank	112	111	101	104
MB 500-757987/6	Method Blank	108	107	100	104
MB 500-758838/6	Method Blank	100	105	91	93

Surrogate Legend

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

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-247226-24	Trip Blank	108	109	104	103
LCS 500-757986/4	Lab Control Sample	103	104	100	106
MB 500-757986/6	Method Blank	108	107	100	104

Surrogate Legend

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

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 500-757568/16-A
Matrix: Solid
Analysis Batch: 757801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757568

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,1-Dichloroethane	<21		50	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,1-Dichloroethene	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,1-Dichloropropene	<15		50	15	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2-Dibromoethane	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2-Dichloroethane	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,2-Dichloropropane	<21		50	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,3-Dichloropropane	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
2,2-Dichloropropane	<22		250	22	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
2-Chlorotoluene	<16		50	16	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
4-Chlorotoluene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Benzene	<7.3		13	7.3	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Bromobenzene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Bromochloromethane	<21		50	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Bromodichloromethane	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Bromoform	<24		50	24	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Bromomethane	<40		150	40	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Carbon tetrachloride	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Chlorobenzene	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Chloroethane	<25		250	25	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Chloroform	23.4	J	100	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Chloromethane	<16		250	16	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Dibromochloromethane	<24		50	24	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Dibromomethane	<14		50	14	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Hexachlorobutadiene	<22		50	22	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Isopropyl ether	<14		50	14	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Isopropylbenzene	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Methylene Chloride	<82		250	82	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Naphthalene	<17		50	17	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
n-Butylbenzene	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
N-Propylbenzene	<21		50	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50

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

Lab Sample ID: LB3 500-757568/16-A
Matrix: Solid
Analysis Batch: 757801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757568

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
sec-Butylbenzene	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Styrene	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
tert-Butylbenzene	<20		50	20	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Tetrachloroethene	<19		50	19	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Toluene	<7.4		13	7.4	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Trichloroethene	<8.2		25	8.2	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Trichlorofluoromethane	<21		50	21	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Vinyl chloride	<13		50	13	ug/Kg		03/10/24 20:45	03/12/24 11:08	50
Xylenes, Total	<11		25	11	ug/Kg		03/10/24 20:45	03/12/24 11:08	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*	*03/10/24 20:45*	*03/12/24 11:08*	*50*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*	*03/10/24 20:45*	*03/12/24 11:08*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*03/10/24 20:45*	*03/12/24 11:08*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*03/10/24 20:45*	*03/12/24 11:08*	*50*

Lab Sample ID: LCS 500-757568/17-A
Matrix: Solid
Analysis Batch: 757801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2500	2880		ug/Kg		115	70 - 125
1,1,1-Trichloroethane	2500	3000		ug/Kg		120	70 - 125
1,1,2,2-Tetrachloroethane	2500	2740		ug/Kg		109	62 - 140
1,1,2-Trichloroethane	2500	2750		ug/Kg		110	71 - 130
1,1-Dichloroethane	2500	2960		ug/Kg		119	70 - 125
1,1-Dichloroethene	2500	2940		ug/Kg		117	67 - 122
1,1-Dichloropropene	2500	3080	*+	ug/Kg		123	70 - 121
1,2,3-Trichlorobenzene	2500	2910		ug/Kg		116	51 - 145
1,2,3-Trichloropropane	2500	2620		ug/Kg		105	50 - 133
1,2,4-Trichlorobenzene	2500	2850		ug/Kg		114	57 - 137
1,2,4-Trimethylbenzene	2500	3040		ug/Kg		122	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2800		ug/Kg		112	56 - 123
1,2-Dibromoethane	2500	2820		ug/Kg		113	70 - 125
1,2-Dichlorobenzene	2500	3030		ug/Kg		121	70 - 125
1,2-Dichloroethane	2500	3100		ug/Kg		124	68 - 127
1,2-Dichloropropane	2500	2870		ug/Kg		115	67 - 130
1,3,5-Trimethylbenzene	2500	3120	*+	ug/Kg		125	70 - 123
1,3-Dichlorobenzene	2500	2990		ug/Kg		119	70 - 125
1,3-Dichloropropane	2500	2930		ug/Kg		117	62 - 136
1,4-Dichlorobenzene	2500	2970		ug/Kg		119	70 - 120
2,2-Dichloropropane	2500	3080		ug/Kg		123	58 - 139
2-Chlorotoluene	2500	3040		ug/Kg		122	70 - 125
4-Chlorotoluene	2500	3010		ug/Kg		120	68 - 124
Benzene	2500	2890		ug/Kg		115	70 - 120

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

Lab Sample ID: LCS 500-757568/17-A
Matrix: Solid
Analysis Batch: 757801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	2500	3050		ug/Kg		122	70 - 122
Bromochloromethane	2500	2920		ug/Kg		117	65 - 122
Bromodichloromethane	2500	2900		ug/Kg		116	69 - 120
Bromoform	2500	2640		ug/Kg		106	56 - 132
Bromomethane	2500	3140		ug/Kg		126	40 - 152
Carbon tetrachloride	2500	3000		ug/Kg		120	59 - 133
Chlorobenzene	2500	2960		ug/Kg		118	70 - 120
Chloroethane	2500	2920		ug/Kg		117	48 - 136
Chloroform	2500	2960		ug/Kg		118	70 - 120
Chloromethane	2500	2120		ug/Kg		85	56 - 152
cis-1,2-Dichloroethene	2500	2920		ug/Kg		117	70 - 125
cis-1,3-Dichloropropene	2500	2870		ug/Kg		115	64 - 127
Dibromochloromethane	2500	2730		ug/Kg		109	68 - 125
Dibromomethane	2500	2820		ug/Kg		113	70 - 120
Dichlorodifluoromethane	2500	1410		ug/Kg		56	40 - 159
Ethylbenzene	2500	2900		ug/Kg		116	70 - 123
Hexachlorobutadiene	2500	3170		ug/Kg		127	51 - 150
Isopropylbenzene	2500	3170	*+	ug/Kg		127	70 - 126
Methyl tert-butyl ether	2500	2430		ug/Kg		97	55 - 123
Methylene Chloride	2500	2810		ug/Kg		113	69 - 125
Naphthalene	2500	2730		ug/Kg		109	53 - 144
n-Butylbenzene	2500	3080		ug/Kg		123	68 - 125
N-Propylbenzene	2500	3130		ug/Kg		125	69 - 127
p-Isopropyltoluene	2500	3140		ug/Kg		125	70 - 125
sec-Butylbenzene	2500	3150	*+	ug/Kg		126	70 - 123
Styrene	2500	3010		ug/Kg		120	70 - 120
tert-Butylbenzene	2500	3150	*+	ug/Kg		126	70 - 121
Tetrachloroethene	2500	2940		ug/Kg		118	70 - 128
Toluene	2500	2880		ug/Kg		115	70 - 125
trans-1,2-Dichloroethene	2500	2960		ug/Kg		118	70 - 125
trans-1,3-Dichloropropene	2500	2750		ug/Kg		110	62 - 128
Trichloroethene	2500	2930		ug/Kg		117	70 - 125
Trichlorofluoromethane	2500	3140		ug/Kg		126	55 - 128
Vinyl chloride	2500	2280		ug/Kg		91	64 - 126
Xylenes, Total	5000	5680		ug/Kg		114	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 120*
Toluene-d8 (Surr)	*105*		*75 - 120*

Lab Sample ID: MB 500-757787/8
Matrix: Solid
Analysis Batch: 757787

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/12/24 11:50	1

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

Lab Sample ID: MB 500-757787/8
Matrix: Solid
Analysis Batch: 757787

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/12/24 11:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/12/24 11:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/12/24 11:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/12/24 11:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/12/24 11:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/12/24 11:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/12/24 11:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			03/12/24 11:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/12/24 11:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/12/24 11:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/12/24 11:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/12/24 11:50	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/12/24 11:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/12/24 11:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/12/24 11:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/12/24 11:50	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/12/24 11:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/12/24 11:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/12/24 11:50	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/12/24 11:50	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/12/24 11:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			03/12/24 11:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			03/12/24 11:50	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/12/24 11:50	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/12/24 11:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/12/24 11:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/12/24 11:50	1
Chloroform	0.540	J	2.0	0.37	ug/Kg			03/12/24 11:50	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/12/24 11:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/12/24 11:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/12/24 11:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			03/12/24 11:50	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/12/24 11:50	1
Dichlorodifluoromethane	1.38	J	3.0	0.67	ug/Kg			03/12/24 11:50	1
Ethylbenzene	0.196	J	0.25	0.18	ug/Kg			03/12/24 11:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/12/24 11:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/12/24 11:50	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/12/24 11:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/12/24 11:50	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			03/12/24 11:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/12/24 11:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/12/24 11:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/12/24 11:50	1

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

Lab Sample ID: MB 500-757787/8
Matrix: Solid
Analysis Batch: 757787

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/Kg			03/12/24 11:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/12/24 11:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/12/24 11:50	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/12/24 11:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/12/24 11:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/12/24 11:50	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/12/24 11:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/12/24 11:50	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/12/24 11:50	1
Xylenes, Total	0.220	J	0.50	0.22	ug/Kg			03/12/24 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*75 - 126*		*03/12/24 11:50*	*1*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*03/12/24 11:50*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*03/12/24 11:50*	*1*
Toluene-d8 (Surr)	*108*		*75 - 120*		*03/12/24 11:50*	*1*

Lab Sample ID: LCS 500-757787/5
Matrix: Solid
Analysis Batch: 757787

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	70 - 125
1,1,1-Trichloroethane	50.0	55.9		ug/Kg		112	70 - 125
1,1,2,2-Tetrachloroethane	50.0	41.4		ug/Kg		83	62 - 140
1,1,2-Trichloroethane	50.0	46.2		ug/Kg		92	71 - 130
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 125
1,1-Dichloroethene	50.0	47.5		ug/Kg		95	67 - 122
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 121
1,2,3-Trichlorobenzene	50.0	47.0		ug/Kg		94	51 - 145
1,2,3-Trichloropropane	50.0	42.9		ug/Kg		86	50 - 133
1,2,4-Trichlorobenzene	50.0	49.7		ug/Kg		99	57 - 137
1,2,4-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/Kg		86	56 - 123
1,2-Dibromoethane	50.0	47.3		ug/Kg		95	70 - 125
1,2-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 125
1,2-Dichloroethane	50.0	56.6		ug/Kg		113	68 - 127
1,2-Dichloropropane	50.0	47.5		ug/Kg		95	67 - 130
1,3,5-Trimethylbenzene	50.0	50.6		ug/Kg		101	70 - 123
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 125
1,3-Dichloropropane	50.0	49.8		ug/Kg		100	62 - 136
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	70 - 120
2,2-Dichloropropane	50.0	57.2		ug/Kg		114	58 - 139
2-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 125
4-Chlorotoluene	50.0	51.5		ug/Kg		103	68 - 124
Benzene	50.0	45.0		ug/Kg		90	70 - 120
Bromobenzene	50.0	46.8		ug/Kg		94	70 - 122
Bromochloromethane	50.0	46.7		ug/Kg		93	65 - 122

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

Lab Sample ID: LCS 500-757787/5
Matrix: Solid
Analysis Batch: 757787

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	50.0	55.6		ug/Kg		111	69 - 120
Bromoform	50.0	46.2		ug/Kg		92	56 - 132
Bromomethane	50.0	65.5		ug/Kg		131	40 - 152
Carbon tetrachloride	50.0	53.3		ug/Kg		107	59 - 133
Chlorobenzene	50.0	50.1		ug/Kg		100	70 - 120
Chloroethane	50.0	52.7		ug/Kg		105	48 - 136
Chloroform	50.0	45.4		ug/Kg		91	70 - 120
Chloromethane	50.0	45.3		ug/Kg		91	56 - 152
cis-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	64 - 127
Dibromochloromethane	50.0	48.2		ug/Kg		96	68 - 125
Dibromomethane	50.0	49.6		ug/Kg		99	70 - 120
Dichlorodifluoromethane	50.0	64.7		ug/Kg		129	40 - 159
Ethylbenzene	50.0	51.0		ug/Kg		102	70 - 123
Hexachlorobutadiene	50.0	38.8		ug/Kg		78	51 - 150
Isopropylbenzene	50.0	48.9		ug/Kg		98	70 - 126
Methyl tert-butyl ether	50.0	46.9		ug/Kg		94	55 - 123
Methylene Chloride	50.0	45.4		ug/Kg		91	69 - 125
Naphthalene	50.0	43.6		ug/Kg		87	53 - 144
n-Butylbenzene	50.0	51.1		ug/Kg		102	68 - 125
N-Propylbenzene	50.0	49.6		ug/Kg		99	69 - 127
p-Isopropyltoluene	50.0	49.4		ug/Kg		99	70 - 125
sec-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 123
Styrene	50.0	52.2		ug/Kg		104	70 - 120
tert-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 121
Tetrachloroethene	50.0	49.1		ug/Kg		98	70 - 128
Toluene	50.0	47.5		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	70 - 125
trans-1,3-Dichloropropene	50.0	52.8		ug/Kg		106	62 - 128
Trichloroethene	50.0	47.8		ug/Kg		96	70 - 125
Trichlorofluoromethane	50.0	60.1		ug/Kg		120	55 - 128
Vinyl chloride	50.0	52.5		ug/Kg		105	64 - 126
Xylenes, Total	100	102		ug/Kg		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*75 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Lab Sample ID: MB 500-757801/6
Matrix: Solid
Analysis Batch: 757801

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/12/24 10:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/12/24 10:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/12/24 10:44	1

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

Lab Sample ID: MB 500-757801/6
Matrix: Solid
Analysis Batch: 757801

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/12/24 10:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/12/24 10:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/12/24 10:44	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/12/24 10:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/12/24 10:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			03/12/24 10:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/12/24 10:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/12/24 10:44	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/12/24 10:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/12/24 10:44	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/12/24 10:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/12/24 10:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/12/24 10:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/12/24 10:44	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/12/24 10:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/12/24 10:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/12/24 10:44	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/12/24 10:44	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/12/24 10:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			03/12/24 10:44	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			03/12/24 10:44	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/12/24 10:44	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/12/24 10:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/12/24 10:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/12/24 10:44	1
Chloroform	<0.37		2.0	0.37	ug/Kg			03/12/24 10:44	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/12/24 10:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/12/24 10:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/12/24 10:44	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			03/12/24 10:44	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/12/24 10:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/12/24 10:44	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/12/24 10:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/12/24 10:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/12/24 10:44	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/12/24 10:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/12/24 10:44	1
Naphthalene	0.413	J	1.0	0.33	ug/Kg			03/12/24 10:44	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/12/24 10:44	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/12/24 10:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/12/24 10:44	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/12/24 10:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/12/24 10:44	1

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

Lab Sample ID: MB 500-757801/6
Matrix: Solid
Analysis Batch: 757801

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/12/24 10:44	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/12/24 10:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/12/24 10:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/12/24 10:44	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/12/24 10:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/12/24 10:44	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/12/24 10:44	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/12/24 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*03/12/24 10:44*	*1*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*03/12/24 10:44*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 120*		*03/12/24 10:44*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/12/24 10:44*	*1*

Lab Sample ID: LCS 500-757801/4
Matrix: Solid
Analysis Batch: 757801

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.7		ug/Kg		93	70 - 125
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	62 - 140
1,1,2-Trichloroethane	50.0	45.1		ug/Kg		90	71 - 130
1,1-Dichloroethane	50.0	48.5		ug/Kg		97	70 - 125
1,1-Dichloroethene	50.0	48.5		ug/Kg		97	67 - 122
1,1-Dichloropropene	50.0	51.0		ug/Kg		102	70 - 121
1,2,3-Trichlorobenzene	50.0	50.4		ug/Kg		101	51 - 145
1,2,3-Trichloropropane	50.0	44.6		ug/Kg		89	50 - 133
1,2,4-Trichlorobenzene	50.0	50.3		ug/Kg		101	57 - 137
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/Kg		95	56 - 123
1,2-Dibromoethane	50.0	48.6		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 125
1,2-Dichloroethane	50.0	51.0		ug/Kg		102	68 - 127
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	67 - 130
1,3,5-Trimethylbenzene	50.0	50.4		ug/Kg		101	70 - 123
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 125
1,3-Dichloropropane	50.0	50.1		ug/Kg		100	62 - 136
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 120
2,2-Dichloropropane	50.0	49.8		ug/Kg		100	58 - 139
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 125
4-Chlorotoluene	50.0	50.0		ug/Kg		100	68 - 124
Benzene	50.0	47.3		ug/Kg		95	70 - 120
Bromobenzene	50.0	49.2		ug/Kg		98	70 - 122
Bromochloromethane	50.0	46.6		ug/Kg		93	65 - 122
Bromodichloromethane	50.0	47.7		ug/Kg		95	69 - 120
Bromoform	50.0	45.9		ug/Kg		92	56 - 132

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

Lab Sample ID: LCS 500-757801/4
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 757801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	65.5		ug/Kg		131	40 - 152
Carbon tetrachloride	50.0	49.5		ug/Kg		99	59 - 133
Chlorobenzene	50.0	48.4		ug/Kg		97	70 - 120
Chloroethane	50.0	57.3		ug/Kg		115	48 - 136
Chloroform	50.0	47.0		ug/Kg		94	70 - 120
Chloromethane	50.0	45.7		ug/Kg		91	56 - 152
cis-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	70 - 125
cis-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	64 - 127
Dibromochloromethane	50.0	45.6		ug/Kg		91	68 - 125
Dibromomethane	50.0	47.3		ug/Kg		95	70 - 120
Dichlorodifluoromethane	50.0	51.6		ug/Kg		103	40 - 159
Ethylbenzene	50.0	48.1		ug/Kg		96	70 - 123
Hexachlorobutadiene	50.0	51.5		ug/Kg		103	51 - 150
Isopropylbenzene	50.0	51.4		ug/Kg		103	70 - 126
Methyl tert-butyl ether	50.0	44.1		ug/Kg		88	55 - 123
Methylene Chloride	50.0	45.3		ug/Kg		91	69 - 125
Naphthalene	50.0	47.3		ug/Kg		95	53 - 144
n-Butylbenzene	50.0	53.4		ug/Kg		107	68 - 125
N-Propylbenzene	50.0	52.4		ug/Kg		105	69 - 127
p-Isopropyltoluene	50.0	52.2		ug/Kg		104	70 - 125
sec-Butylbenzene	50.0	52.0		ug/Kg		104	70 - 123
Styrene	50.0	49.2		ug/Kg		98	70 - 120
tert-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 121
Tetrachloroethene	50.0	49.3		ug/Kg		99	70 - 128
Toluene	50.0	46.2		ug/Kg		92	70 - 125
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	70 - 125
trans-1,3-Dichloropropene	50.0	47.6		ug/Kg		95	62 - 128
Trichloroethene	50.0	47.1		ug/Kg		94	70 - 125
Trichlorofluoromethane	50.0	54.6		ug/Kg		109	55 - 128
Vinyl chloride	50.0	47.5		ug/Kg		95	64 - 126
Xylenes, Total	100	93.3		ug/Kg		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-757986/6
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 757986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/13/24 10:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/13/24 10:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/13/24 10:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/13/24 10:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/13/24 10:26	1

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

Lab Sample ID: MB 500-757986/6
Matrix: Water
Analysis Batch: 757986

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/13/24 10:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/13/24 10:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/13/24 10:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/13/24 10:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/13/24 10:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/13/24 10:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/13/24 10:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/13/24 10:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/13/24 10:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/13/24 10:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/13/24 10:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/13/24 10:26	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			03/13/24 10:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/13/24 10:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/13/24 10:26	1
Benzene	<0.15		0.50	0.15	ug/L			03/13/24 10:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/13/24 10:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/13/24 10:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/13/24 10:26	1
Bromoform	<0.48		1.0	0.48	ug/L			03/13/24 10:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/13/24 10:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/13/24 10:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
Chloroethane	<0.51		5.0	0.51	ug/L			03/13/24 10:26	1
Chloroform	0.477	J	2.0	0.37	ug/L			03/13/24 10:26	1
Chloromethane	<0.32		5.0	0.32	ug/L			03/13/24 10:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/13/24 10:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/13/24 10:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/13/24 10:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/13/24 10:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/13/24 10:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/13/24 10:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/13/24 10:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/13/24 10:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/13/24 10:26	1
Naphthalene	0.379	J	1.0	0.34	ug/L			03/13/24 10:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/13/24 10:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/13/24 10:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/13/24 10:26	1
Styrene	<0.39		1.0	0.39	ug/L			03/13/24 10:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/13/24 10:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/13/24 10:26	1
Toluene	<0.15		0.50	0.15	ug/L			03/13/24 10:26	1

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

Lab Sample ID: MB 500-757986/6
Matrix: Water
Analysis Batch: 757986

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/13/24 10:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/13/24 10:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/13/24 10:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/13/24 10:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/13/24 10:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/13/24 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*03/13/24 10:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*03/13/24 10:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*03/13/24 10:26*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/13/24 10:26*	*1*

Lab Sample ID: LCS 500-757986/4
Matrix: Water
Analysis Batch: 757986

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	43.4		ug/L		87	70 - 125
1,1,1-Trichloroethane	50.0	45.2		ug/L		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.3		ug/L		79	62 - 140
1,1,2-Trichloroethane	50.0	40.7		ug/L		81	71 - 130
1,1-Dichloroethane	50.0	43.8		ug/L		88	70 - 125
1,1-Dichloroethene	50.0	44.6		ug/L		89	67 - 122
1,1-Dichloropropene	50.0	46.2		ug/L		92	70 - 121
1,2,3-Trichlorobenzene	50.0	44.1		ug/L		88	51 - 145
1,2,3-Trichloropropane	50.0	38.9		ug/L		78	50 - 133
1,2,4-Trichlorobenzene	50.0	45.7		ug/L		91	57 - 137
1,2,4-Trimethylbenzene	50.0	46.5		ug/L		93	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.7		ug/L		77	56 - 123
1,2-Dibromoethane	50.0	43.5		ug/L		87	70 - 125
1,2-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	44.5		ug/L		89	68 - 127
1,2-Dichloropropane	50.0	40.9		ug/L		82	67 - 130
1,3,5-Trimethylbenzene	50.0	47.3		ug/L		95	70 - 123
1,3-Dichlorobenzene	50.0	45.6		ug/L		91	70 - 125
1,3-Dichloropropane	50.0	42.3		ug/L		85	62 - 136
1,4-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 120
2,2-Dichloropropane	50.0	46.6		ug/L		93	58 - 139
2-Chlorotoluene	50.0	45.8		ug/L		92	70 - 125
4-Chlorotoluene	50.0	45.7		ug/L		91	68 - 124
Benzene	50.0	42.9		ug/L		86	70 - 120
Bromobenzene	50.0	45.6		ug/L		91	70 - 122
Bromochloromethane	50.0	42.3		ug/L		85	65 - 122
Bromodichloromethane	50.0	41.5		ug/L		83	69 - 120
Bromoform	50.0	39.4		ug/L		79	56 - 132
Bromomethane	50.0	50.2		ug/L		100	40 - 152
Carbon tetrachloride	50.0	44.4		ug/L		89	59 - 133

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

Lab Sample ID: LCS 500-757986/4
Matrix: Water
Analysis Batch: 757986

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	44.7		ug/L		89	70 - 120
Chloroethane	50.0	52.4		ug/L		105	48 - 136
Chloroform	50.0	43.4		ug/L		87	70 - 120
Chloromethane	50.0	44.1		ug/L		88	56 - 152
cis-1,2-Dichloroethene	50.0	41.6		ug/L		83	70 - 125
cis-1,3-Dichloropropene	50.0	42.2		ug/L		84	64 - 127
Dibromochloromethane	50.0	40.2		ug/L		80	68 - 125
Dibromomethane	50.0	40.9		ug/L		82	70 - 120
Dichlorodifluoromethane	50.0	48.7		ug/L		97	40 - 159
Ethylbenzene	50.0	44.8		ug/L		90	70 - 123
Hexachlorobutadiene	50.0	49.3		ug/L		99	51 - 150
Isopropylbenzene	50.0	47.6		ug/L		95	70 - 126
Methyl tert-butyl ether	50.0	36.4		ug/L		73	55 - 123
Methylene Chloride	50.0	42.0		ug/L		84	69 - 125
Naphthalene	50.0	39.3		ug/L		79	53 - 144
n-Butylbenzene	50.0	48.9		ug/L		98	68 - 125
N-Propylbenzene	50.0	47.7		ug/L		95	69 - 127
p-Isopropyltoluene	50.0	48.6		ug/L		97	70 - 125
sec-Butylbenzene	50.0	48.3		ug/L		97	70 - 123
Styrene	50.0	45.2		ug/L		90	70 - 120
tert-Butylbenzene	50.0	47.5		ug/L		95	70 - 121
Tetrachloroethene	50.0	46.0		ug/L		92	70 - 128
Toluene	50.0	42.7		ug/L		85	70 - 125
trans-1,2-Dichloroethene	50.0	45.4		ug/L		91	70 - 125
trans-1,3-Dichloropropene	50.0	40.2		ug/L		80	62 - 128
Trichloroethene	50.0	42.6		ug/L		85	70 - 125
Trichlorofluoromethane	50.0	53.6		ug/L		107	55 - 128
Vinyl chloride	50.0	45.2		ug/L		90	64 - 126
Xylenes, Total	100	85.1		ug/L		85	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: MB 500-757987/6
Matrix: Solid
Analysis Batch: 757987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/13/24 10:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/13/24 10:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/13/24 10:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/13/24 10:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/13/24 10:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/13/24 10:26	1

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

Lab Sample ID: MB 500-757987/6
Matrix: Solid
Analysis Batch: 757987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/13/24 10:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/13/24 10:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			03/13/24 10:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/13/24 10:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/13/24 10:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/13/24 10:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/13/24 10:26	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/13/24 10:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/13/24 10:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/13/24 10:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/13/24 10:26	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/13/24 10:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/13/24 10:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/13/24 10:26	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/13/24 10:26	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/13/24 10:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			03/13/24 10:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			03/13/24 10:26	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/13/24 10:26	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/13/24 10:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/13/24 10:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/13/24 10:26	1
Chloroform	0.477	J	2.0	0.37	ug/Kg			03/13/24 10:26	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/13/24 10:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/13/24 10:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/13/24 10:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			03/13/24 10:26	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/13/24 10:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/13/24 10:26	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/13/24 10:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/13/24 10:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/13/24 10:26	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/13/24 10:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/13/24 10:26	1
Naphthalene	0.379	J	1.0	0.33	ug/Kg			03/13/24 10:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/13/24 10:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/13/24 10:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/13/24 10:26	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/13/24 10:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/13/24 10:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/13/24 10:26	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/13/24 10:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/13/24 10:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/13/24 10:26	1

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

Lab Sample ID: MB 500-757987/6
Matrix: Solid
Analysis Batch: 757987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/13/24 10:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/13/24 10:26	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/13/24 10:26	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/13/24 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*03/13/24 10:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*03/13/24 10:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*03/13/24 10:26*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/13/24 10:26*	*1*

Lab Sample ID: LCS 500-757987/4
Matrix: Solid
Analysis Batch: 757987

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	43.4		ug/Kg		87	70 - 125
1,1,1-Trichloroethane	50.0	45.2		ug/Kg		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.3		ug/Kg		79	62 - 140
1,1,2-Trichloroethane	50.0	40.7		ug/Kg		81	71 - 130
1,1-Dichloroethane	50.0	43.8		ug/Kg		88	70 - 125
1,1-Dichloroethene	50.0	44.6		ug/Kg		89	67 - 122
1,1-Dichloropropene	50.0	46.2		ug/Kg		92	70 - 121
1,2,3-Trichlorobenzene	50.0	44.1		ug/Kg		88	51 - 145
1,2,3-Trichloropropane	50.0	38.9		ug/Kg		78	50 - 133
1,2,4-Trichlorobenzene	50.0	45.7		ug/Kg		91	57 - 137
1,2,4-Trimethylbenzene	50.0	46.5		ug/Kg		93	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	38.7		ug/Kg		77	56 - 123
1,2-Dibromoethane	50.0	43.5		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	50.0	44.9		ug/Kg		90	70 - 125
1,2-Dichloroethane	50.0	44.5		ug/Kg		89	68 - 127
1,2-Dichloropropane	50.0	40.9		ug/Kg		82	67 - 130
1,3,5-Trimethylbenzene	50.0	47.3		ug/Kg		95	70 - 123
1,3-Dichlorobenzene	50.0	45.6		ug/Kg		91	70 - 125
1,3-Dichloropropane	50.0	42.3		ug/Kg		85	62 - 136
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	70 - 120
2,2-Dichloropropane	50.0	46.6		ug/Kg		93	58 - 139
2-Chlorotoluene	50.0	45.8		ug/Kg		92	70 - 125
4-Chlorotoluene	50.0	45.7		ug/Kg		91	68 - 124
Benzene	50.0	42.9		ug/Kg		86	70 - 120
Bromobenzene	50.0	45.6		ug/Kg		91	70 - 122
Bromochloromethane	50.0	42.3		ug/Kg		85	65 - 122
Bromodichloromethane	50.0	41.5		ug/Kg		83	69 - 120
Bromoform	50.0	39.4		ug/Kg		79	56 - 132
Bromomethane	50.0	50.2		ug/Kg		100	40 - 152
Carbon tetrachloride	50.0	44.4		ug/Kg		89	59 - 133
Chlorobenzene	50.0	44.7		ug/Kg		89	70 - 120
Chloroethane	50.0	52.4		ug/Kg		105	48 - 136

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

Lab Sample ID: LCS 500-757987/4
Matrix: Solid
Analysis Batch: 757987

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	43.4		ug/Kg		87	70 - 120
Chloromethane	50.0	44.1		ug/Kg		88	56 - 152
cis-1,2-Dichloroethene	50.0	41.6		ug/Kg		83	70 - 125
cis-1,3-Dichloropropene	50.0	42.2		ug/Kg		84	64 - 127
Dibromochloromethane	50.0	40.2		ug/Kg		80	68 - 125
Dibromomethane	50.0	40.9		ug/Kg		82	70 - 120
Dichlorodifluoromethane	50.0	48.7		ug/Kg		97	40 - 159
Ethylbenzene	50.0	44.8		ug/Kg		90	70 - 123
Hexachlorobutadiene	50.0	49.3		ug/Kg		99	51 - 150
Isopropylbenzene	50.0	47.6		ug/Kg		95	70 - 126
Methyl tert-butyl ether	50.0	36.4		ug/Kg		73	55 - 123
Methylene Chloride	50.0	42.0		ug/Kg		84	69 - 125
Naphthalene	50.0	39.3		ug/Kg		79	53 - 144
n-Butylbenzene	50.0	48.9		ug/Kg		98	68 - 125
N-Propylbenzene	50.0	47.7		ug/Kg		95	69 - 127
p-Isopropyltoluene	50.0	48.6		ug/Kg		97	70 - 125
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 123
Styrene	50.0	45.2		ug/Kg		90	70 - 120
tert-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 121
Tetrachloroethene	50.0	46.0		ug/Kg		92	70 - 128
Toluene	50.0	42.7		ug/Kg		85	70 - 125
trans-1,2-Dichloroethene	50.0	45.4		ug/Kg		91	70 - 125
trans-1,3-Dichloropropene	50.0	40.2		ug/Kg		80	62 - 128
Trichloroethene	50.0	42.6		ug/Kg		85	70 - 125
Trichlorofluoromethane	50.0	53.6		ug/Kg		107	55 - 128
Vinyl chloride	50.0	45.2		ug/Kg		90	64 - 126
Xylenes, Total	100	85.1		ug/Kg		85	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: MB 500-758838/6
Matrix: Solid
Analysis Batch: 758838

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			03/19/24 10:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			03/19/24 10:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			03/19/24 10:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			03/19/24 10:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			03/19/24 10:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			03/19/24 10:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			03/19/24 10:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			03/19/24 10:13	1

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

Lab Sample ID: MB 500-758838/6
Matrix: Solid
Analysis Batch: 758838

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/Kg			03/19/24 10:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			03/19/24 10:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			03/19/24 10:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			03/19/24 10:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			03/19/24 10:13	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			03/19/24 10:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			03/19/24 10:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			03/19/24 10:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			03/19/24 10:13	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/Kg			03/19/24 10:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			03/19/24 10:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			03/19/24 10:13	1
Benzene	<0.15		0.25	0.15	ug/Kg			03/19/24 10:13	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			03/19/24 10:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			03/19/24 10:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			03/19/24 10:13	1
Bromoform	<0.48		1.0	0.48	ug/Kg			03/19/24 10:13	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			03/19/24 10:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			03/19/24 10:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
Chloroethane	<0.50		5.0	0.50	ug/Kg			03/19/24 10:13	1
Chloroform	0.453	J	2.0	0.37	ug/Kg			03/19/24 10:13	1
Chloromethane	<0.32		5.0	0.32	ug/Kg			03/19/24 10:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			03/19/24 10:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			03/19/24 10:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			03/19/24 10:13	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			03/19/24 10:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			03/19/24 10:13	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			03/19/24 10:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			03/19/24 10:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			03/19/24 10:13	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			03/19/24 10:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			03/19/24 10:13	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			03/19/24 10:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			03/19/24 10:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			03/19/24 10:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/19/24 10:13	1
Styrene	<0.39		1.0	0.39	ug/Kg			03/19/24 10:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			03/19/24 10:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			03/19/24 10:13	1
Toluene	<0.15		0.25	0.15	ug/Kg			03/19/24 10:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			03/19/24 10:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			03/19/24 10:13	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			03/19/24 10:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			03/19/24 10:13	1

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

Lab Sample ID: MB 500-758838/6
Matrix: Solid
Analysis Batch: 758838

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			03/19/24 10:13	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			03/19/24 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*03/19/24 10:13*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*03/19/24 10:13*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 120*		*03/19/24 10:13*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*03/19/24 10:13*	*1*

Lab Sample ID: LCS 500-758838/4
Matrix: Solid
Analysis Batch: 758838

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 125
1,1,1-Trichloroethane	50.0	53.7		ug/Kg		107	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	62 - 140
1,1,2-Trichloroethane	50.0	50.6		ug/Kg		101	71 - 130
1,1-Dichloroethane	50.0	54.7		ug/Kg		109	70 - 125
1,1-Dichloroethene	50.0	52.4		ug/Kg		105	67 - 122
1,1-Dichloropropene	50.0	56.1		ug/Kg		112	70 - 121
1,2,3-Trichlorobenzene	50.0	40.6		ug/Kg		81	51 - 145
1,2,3-Trichloropropane	50.0	53.1		ug/Kg		106	50 - 133
1,2,4-Trichlorobenzene	50.0	45.6		ug/Kg		91	57 - 137
1,2,4-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/Kg		79	56 - 123
1,2-Dibromoethane	50.0	52.7		ug/Kg		105	70 - 125
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 125
1,2-Dichloroethane	50.0	52.9		ug/Kg		106	68 - 127
1,2-Dichloropropane	50.0	56.5		ug/Kg		113	67 - 130
1,3,5-Trimethylbenzene	50.0	54.0		ug/Kg		108	70 - 123
1,3-Dichlorobenzene	50.0	53.3		ug/Kg		107	70 - 125
1,3-Dichloropropane	50.0	56.4		ug/Kg		113	62 - 136
1,4-Dichlorobenzene	50.0	52.2		ug/Kg		104	70 - 120
2,2-Dichloropropane	50.0	51.8		ug/Kg		104	58 - 139
2-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 125
4-Chlorotoluene	50.0	54.5		ug/Kg		109	68 - 124
Benzene	50.0	54.3		ug/Kg		109	70 - 120
Bromobenzene	50.0	55.3		ug/Kg		111	70 - 122
Bromochloromethane	50.0	52.5		ug/Kg		105	65 - 122
Bromodichloromethane	50.0	50.8		ug/Kg		102	69 - 120
Bromoform	50.0	46.6		ug/Kg		93	56 - 132
Bromomethane	50.0	36.8		ug/Kg		74	40 - 152
Carbon tetrachloride	50.0	53.6		ug/Kg		107	59 - 133
Chlorobenzene	50.0	54.5		ug/Kg		109	70 - 120
Chloroethane	50.0	46.1		ug/Kg		92	48 - 136
Chloroform	50.0	52.9		ug/Kg		106	70 - 120
Chloromethane	50.0	45.5		ug/Kg		91	56 - 152

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

Lab Sample ID: LCS 500-758838/4
Matrix: Solid
Analysis Batch: 758838

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	52.6		ug/Kg		105	64 - 127
Dibromochloromethane	50.0	49.0		ug/Kg		98	68 - 125
Dibromomethane	50.0	50.4		ug/Kg		101	70 - 120
Dichlorodifluoromethane	50.0	50.4		ug/Kg		101	40 - 159
Ethylbenzene	50.0	51.9		ug/Kg		104	70 - 123
Hexachlorobutadiene	50.0	50.4		ug/Kg		101	51 - 150
Isopropylbenzene	50.0	54.2		ug/Kg		108	70 - 126
Methyl tert-butyl ether	50.0	59.6		ug/Kg		119	55 - 123
Methylene Chloride	50.0	52.0		ug/Kg		104	69 - 125
Naphthalene	50.0	38.5		ug/Kg		77	53 - 144
n-Butylbenzene	50.0	48.1		ug/Kg		96	68 - 125
N-Propylbenzene	50.0	53.0		ug/Kg		106	69 - 127
p-Isopropyltoluene	50.0	51.9		ug/Kg		104	70 - 125
sec-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 123
Styrene	50.0	53.0		ug/Kg		106	70 - 120
tert-Butylbenzene	50.0	53.3		ug/Kg		107	70 - 121
Tetrachloroethene	50.0	58.8		ug/Kg		118	70 - 128
Toluene	50.0	50.4		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	53.0		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	62 - 128
Trichloroethene	50.0	55.6		ug/Kg		111	70 - 125
Trichlorofluoromethane	50.0	46.0		ug/Kg		92	55 - 128
Vinyl chloride	50.0	44.5		ug/Kg		89	64 - 126
Xylenes, Total	100	106		ug/Kg		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*93*		*75 - 120*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-38 (2-3)
Date Collected: 03/07/24 11:10
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-38 (2-3)
Date Collected: 03/07/24 11:10
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-1
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 11:10
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 15:31

Client Sample ID: IB-38 (6-7)
Date Collected: 03/07/24 11:15
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-38 (6-7)
Date Collected: 03/07/24 11:15
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-2
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 11:15
Total/NA	Analysis	8260D		50	758838	W1T	EET CHI	03/19/24 17:04
Total/NA	Prep	5035	DL		757568	WRE	EET CHI	03/07/24 11:15
Total/NA	Analysis	8260D	DL	500	758838	W1T	EET CHI	03/19/24 17:28

Client Sample ID: IB-38 (14-15)
Date Collected: 03/07/24 11:20
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-38 (14-15)
Date Collected: 03/07/24 11:20
Date Received: 03/09/24 09:40

Lab Sample ID: 500-247226-3
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	DL		757568	WRE	EET CHI	03/07/24 11:20
Total/NA	Analysis	8260D	DL	5000	757987	EA	EET CHI	03/13/24 18:56
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 11:20
Total/NA	Analysis	8260D		500	757787	W1T	EET CHI	03/12/24 20:01

Client Sample ID: IB-38 (22-23)
Lab Sample ID: 500-247226-4
Date Collected: 03/07/24 11:30
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-38 (22-23)
Lab Sample ID: 500-247226-4
Date Collected: 03/07/24 11:30
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 11:30
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 15:55

Client Sample ID: IB-38 (29-30)
Lab Sample ID: 500-247226-5
Date Collected: 03/07/24 11:35
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-38 (29-30)
Lab Sample ID: 500-247226-5
Date Collected: 03/07/24 11:35
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 11:35
Total/NA	Analysis	8260D		50	757987	EA	EET CHI	03/13/24 18:07

Client Sample ID: IB-1R (2-3)
Lab Sample ID: 500-247226-6
Date Collected: 03/07/24 12:30
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-1R (9-10)
Lab Sample ID: 500-247226-7
Date Collected: 03/07/24 12:35
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-1R (14-15)
Lab Sample ID: 500-247226-8
Date Collected: 03/07/24 12:40
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-1R (20-21)
Lab Sample ID: 500-247226-9
Date Collected: 03/07/24 12:45
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-5R (2-3)
Lab Sample ID: 500-247226-10
Date Collected: 03/07/24 12:50
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-5R (9-10)
Lab Sample ID: 500-247226-11
Date Collected: 03/07/24 12:55
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-5R (14-15)
Lab Sample ID: 500-247226-12
Date Collected: 03/07/24 13:00
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-5R (20-21)
Lab Sample ID: 500-247226-13
Date Collected: 03/07/24 13:05
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-8R (3-4)
Lab Sample ID: 500-247226-14
Date Collected: 03/07/24 14:00
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-8R (7-8)
Lab Sample ID: 500-247226-15
Date Collected: 03/07/24 14:05
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-8R (14-15)
Lab Sample ID: 500-247226-16
Date Collected: 03/07/24 14:10
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-8R (20-21)
Lab Sample ID: 500-247226-17
Date Collected: 03/07/24 14:15
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	D2974-87		1	757831	ER	EET CHI	03/12/24 08:34

Client Sample ID: IB-37 (2-3)
Lab Sample ID: 500-247226-18
Date Collected: 03/07/24 14:50
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-37 (2-3)
Lab Sample ID: 500-247226-18
Date Collected: 03/07/24 14:50
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 14:50
Total/NA	Analysis	8260D		50	757987	EA	EET CHI	03/13/24 18:31

Client Sample ID: IB-37 (6-7)
Lab Sample ID: 500-247226-19
Date Collected: 03/07/24 14:55
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758387	MR	EET CHI	03/14/24 17:29

Client Sample ID: IB-37 (6-7)
Lab Sample ID: 500-247226-19
Date Collected: 03/07/24 14:55
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 14:55
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 17:09

Client Sample ID: IB-37 (14-15)
Lab Sample ID: 500-247226-20
Date Collected: 03/07/24 15:00
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758445	ER	EET CHI	03/15/24 07:55

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: IB-37 (14-15)
Lab Sample ID: 500-247226-20
Date Collected: 03/07/24 15:00
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 15:00
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 17:34

Client Sample ID: IB-37 (22-23)
Lab Sample ID: 500-247226-21
Date Collected: 03/07/24 15:05
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758445	ER	EET CHI	03/15/24 07:55

Client Sample ID: IB-37 (22-23)
Lab Sample ID: 500-247226-21
Date Collected: 03/07/24 15:05
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 15:05
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 17:59

Client Sample ID: IB-37 (29-30)
Lab Sample ID: 500-247226-22
Date Collected: 03/07/24 15:10
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758445	ER	EET CHI	03/15/24 07:55

Client Sample ID: IB-37 (29-30)
Lab Sample ID: 500-247226-22
Date Collected: 03/07/24 15:10
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 15:10
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 18:23

Client Sample ID: DUP
Lab Sample ID: 500-247226-23
Date Collected: 03/07/24 14:40
Matrix: Solid
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	758445	ER	EET CHI	03/15/24 07:55

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Newell / Shurline – St. Francis

Job ID: 500-247226-1

Client Sample ID: DUP

Lab Sample ID: 500-247226-23
Date Collected: 03/07/24 14:40
Matrix: Solid
Date Received: 03/09/24 09:40
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			757568	WRE	EET CHI	03/07/24 14:40
Total/NA	Analysis	8260D		50	757787	W1T	EET CHI	03/12/24 18:48

Client Sample ID: Trip Blank

Lab Sample ID: 500-247226-24
Date Collected: 03/07/24 00:00
Matrix: Water
Date Received: 03/09/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	757986	W1T	EET CHI	03/13/24 13:16

Laboratory References:

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

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 500-247226-1
Project/Site: Newell / Shurline – St. Francis

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

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	Sampler: D. GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-121791-49141 1
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 1 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #: 600-247226
Address: 234 W Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State, Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: plindquist@ramboll com	WO #:			
Project Name: Newell / Shurline – St. Francis	Project #: 50013868			
Site:	SSOW#:			

Analysis Requested

500-247226 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)	8260D - VOC	D2974_01 - TOC	Lloyd_Kahn_Med - Organic Carbon, Total (TOC)	8260B - VOC	ASTM D2974	Total Number of containers	Special Instructions/Note:
				Preservation Code:				F	N	N	A			
1	1B-38 (2-3)	3-7-24	1110	G	Solid			X						
2	1B-38 (6-7)		1115		Solid			X						
3	1B-38 (14-15)		1120		Solid			X						
4	1B-38 (22-23)		1130		Solid			X						
5	1B-38 (29-30)		1135		Solid			X						
6	1B-1R (2-3)		1230		Solid							X		
7	1B-1R (9-10)		1235		Solid							X		
8	1B-1R (14-15)		1240		Solid							X		
9	1B-1R (20-21)		1245		Solid							X		
10	1B-5R (2-3)		1250		Solid							X		
11	1B-5R (9-10)		1255		Solid							X		

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: * See EMAIL TO SANDIG FOR TEMPS

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3-8 24	RAGS	[signature]	3/8/24 1015	Eurof
Relinquished by	Date/Time	Company	Received by: Stephanie Hernandez	3/9/24 0940	EETA
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: 2.5+2.0

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	Sampler: D.GLASFORD	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-121791-49141 2
Client Contact: Paul Lindquist	Phone:	E Mail: Sandra Fredrick@et.eurofinsus com	State of Origin: WI	Page: Page 2 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #: 500-247226
Address: 234 W Florida Street Fifth Floor	Due Date Requested:			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI, 53204	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: plindquist@ramboll com	WO #:			
Project Name: Newell / Shurline – St. Francis	Project #: 50013868			
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	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)	8260D - VOC	D2974_87 - FOC	Lloyd_Kahn_Mod - Organic Carbon, Total (TOC)	8260D - VOC	ASTM D2974	Total Number of containers	Special Instructions/Note:
				Preservation Code:				F	N	N	A			
12	IB-5R (14-15)	3-7-24	1300	G	Solid							X		
13	IB-5R (20-21)		1305		Solid							X		
14	IB-8R (3-4)		1400		Solid							X		
15	IB-8R (7-8)		1405		Solid							X		
16	IB-8R (14-15)		1410		Solid							X		
17	IB-8R (20-21)		1415		Solid							X		
18	IB-37 (2-3)		1450		Solid			X						
19	IB-37 (6-7)		1455		Solid			X						
20	IB-37 (14-15)		1500		Solid			X						
21	IB-37 (22-23)		1505		Solid			X						
22	IB-37 (29-30)		1510		Solid			X						

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: * SEE EMAIL TO SANDIE FOR TEMPS

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	3-8-24	RAES	Received by:	3/8/24 1015	
Relinquished by:	Date/Time.	Company	Received by: Stephanie Hernandez	3/9/24 0910	EETA
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

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

Chain of Custody Record

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Client Information	Sampler: D- GLASFORD	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-121791-49141 3
Client Contact: Paul Lindquist	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 3 of 3
Company: Ramboll Americas Engineering Solutions	PWSID			Job #: 500-247220
Address: 234 W Florida Street Fifth Floor	Due Date Requested			
City: Milwaukee	TAT Requested (days): STD			
State Zip: WI, 53204	Compliance Project Δ Yes Δ No			
Phone	PO #: Purchase Order not required			
Email: plindquist@ramboll.com	WO #			
Project Name: Newell / Shurline – St. Francis	Project #: 50013868			
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	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)	8260D - VOC	D2974_87 - FOC	Lloyd_Kahn_Mod - Organic Carbon, Total (TOC)	8260D - VOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				F	N	N	A		
23	DUP	3-7-24	1440	G	Solid			X					
24	TRIP BLANK	—	—	—	Solid			X					
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Water								
					Water								
					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
[signature]	3-8-24	RAGS	[signature]	3/8/24 1015	Eurofins
			Stephanie Hernandez	3/9/24 0940	EEIA

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

Ver 06/08/2023 3/20/2024

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 500-247226-1

Login Number: 247226
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	2.0
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	