GANNETT FLEMING

8040 Excelsior Drive
Suite 300
Madison, WI 53717
P 608.327.5050

gannettfleming.com

June 19, 2024
File #55929.005

Mr. Timothy Hauge
5699 South Lowes Creek Road
Eau Claire, WI 54701

Re: Laboratory Results for Water Samples Collected from PW-11 in May 2024

Dear Mr. Hauge:

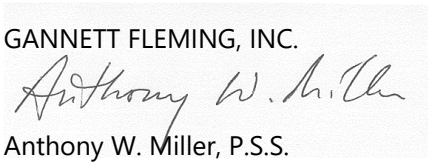
On May 30, 2024, Gannett Fleming, Inc. collected a water sample from your home at 5699 South Lowes Creek Road. The sample was collected as a follow-up to the water samples previously collected from your home in conjunction with on-going groundwater monitoring and remedial activities associated with the WRR Environmental Services facility on Ryder Road. The monitoring and remedial activities at the WRR site are being conducted under the oversight of the Wisconsin Department of Natural Resources (WDNR).

Our designation for your water sample is PW-11. The water sample collected from your home in May was sent to ALS Laboratory in Holland, Michigan, for analysis of 77 individual volatile organic compounds (VOCs). No VOCs were detected in the water sample collected from your well in May 2024. However, a trace of acetone (2.5 micrograms per liter, equivalent to parts per billion) was measured in the trip blank that was analyzed with your sample. Acetone is solvent used in the laboratory and its presence is not reflective of water quality of your well. A copy of the laboratory report for the sample collected from you well in May is included with this letter.

A copy of this letter and the May 2024 lab report are being sent to the WDNR for its records. We thank you for your cooperation. Someone from Gannett Fleming will contact you next spring to schedule a convenient time for us to collect the next sample. In the meantime, if you have any questions regarding the analytical results of the samples collected in May 2024, please call me at the number listed below.

Sincerely,

GANNETT FLEMING, INC.



Anthony W. Miller, P.S.S.
Senior Environmental Scientist
awmiller@gfnet.com
Ph: 608-354-7730

AWM/kmw/Enc.

cc: Matthew Vitale (WDNR)

GF File

13-Jun-2024

Anthony Miller
Gannett Fleming, Inc.
8040 Excelsior Drive
Suite 303
Madison, WI 53717-1338

Re: **WRR (55929.005)** Work Order: **24051853**

Dear Anthony,

ALS Environmental received 2 samples on 31-May-2024 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 22.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Jodi Blouw

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: WI: 399084510

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: **24051853**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
24051853-01	PW-11	Water		5/30/2024 14:10	5/31/2024 10:00	☐
24051853-02	Trip Blank	Water		5/30/2024	5/31/2024 10:00	☐

ALS Group USA, Corp

Date: *Jun 13, 2024*

CLIENT: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)
Lab ID: 24051853-02

Client Sample ID: Trip Blank
Collection Date: 5/30/2024
Matrix: WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**E524.2**		Prep Date:		Analyst: **BAM**
Acetone	2.5	1.6	2.0		µg/L	1	6/12/2024

Qualifiers:

U - Analyzed for but Not Detected
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results RPD > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: **24051853**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 24051853

Case Narrative

Samples for the above noted Work Order were received on 5/31/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, sample condition, preservation, and temperature compliance.
In order to ensure compliance with NR 149 criteria, please note the following report format:
(1) The Limit of Detection (LOD) is reported as the MDL (Method Detection Limit)
(2) The Limit of Quantitation (LOQ) is reported as the PQL (Practical Quantitation Limit)
(3) All reported concentrations, including those for the LOD and LOQ, are adjusted for any required dilutions
(4) All reported concentrations, including those for the LOD and LOQ, are adjusted for moisture content when samples are reported on a dry weight basis.

Samples were analyzed according to the analytical methodology previously documented in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Detail as to the associated samples can be found at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, acronyms, and units utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics

Batch R405758a, Method E524.2, Sample 10V-LCSW1-240612: The LCS recovery was below the lower control limit. The sample results for this batch may be biased low for this analyte: dichlorodifluoromethane

Batch R405758a, Method E524.2, Sample 10V-LCSW1-240612: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: bromomethane, hexachlorobutadiene, methyl iodide, toluene

ALS Group, USA

Date: *13-Jun-24*

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-11
Collection Date: 5/30/2024 02:10 PM

Work Order: 24051853
Lab ID: 24051853-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING		Method: **SW8260D**					Analyst: **NTJ**
1,4-Dioxane	U		0.44	1.0	µg/L	1	6/13/2024 01:26
Surr: Toluene-d8	*93.0*			*74-124*	*%REC*	1	6/13/2024 01:26
VOLATILE ORGANIC COMPOUNDS		Method: **E524.2**					Analyst: **BAM**
1,1,1,2-Tetrachloroethane	U		0.22	0.50	µg/L	1	6/12/2024 18:19
1,1,1-Trichloroethane	U		0.29	0.50	µg/L	1	6/12/2024 18:19
1,1,2,2-Tetrachloroethane	U		0.17	0.50	µg/L	1	6/12/2024 18:19
1,1,2-Trichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 18:19
1,1-Dichloroethane	U		0.10	0.50	µg/L	1	6/12/2024 18:19
1,1-Dichloroethene	U		0.49	0.50	µg/L	1	6/12/2024 18:19
1,1-Dichloropropene	U		0.43	0.50	µg/L	1	6/12/2024 18:19
1,2,3-Trichlorobenzene	U		0.65	1.0	µg/L	1	6/12/2024 18:19
1,2,3-Trichloropropane	U		0.34	0.50	µg/L	1	6/12/2024 18:19
1,2,3-Trimethylbenzene	U		0.35	0.50	µg/L	1	6/12/2024 18:19
1,2,4-Trichlorobenzene	U		0.70	1.0	µg/L	1	6/12/2024 18:19
1,2,4-Trimethylbenzene	U		0.40	0.50	µg/L	1	6/12/2024 18:19
1,2-Dibromo-3-chloropropane	U		0.48	0.50	µg/L	1	6/12/2024 18:19
1,2-Dibromoethane	U		0.16	0.50	µg/L	1	6/12/2024 18:19
1,2-Dichlorobenzene	U		0.45	0.50	µg/L	1	6/12/2024 18:19
1,2-Dichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 18:19
1,2-Dichloropropane	U		0.44	0.50	µg/L	1	6/12/2024 18:19
1,3,5-Trimethylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 18:19
1,3-Dichlorobenzene	U		0.20	0.50	µg/L	1	6/12/2024 18:19
1,3-Dichloropropane	U		0.070	0.50	µg/L	1	6/12/2024 18:19
1,4-Dichlorobenzene	U		0.40	0.50	µg/L	1	6/12/2024 18:19
2,2-Dichloropropane	U		0.33	0.50	µg/L	1	6/12/2024 18:19
2-Butanone	U		0.68	1.0	µg/L	1	6/12/2024 18:19
2-Chlorotoluene	U		0.15	0.50	µg/L	1	6/12/2024 18:19
2-Hexanone	U		0.50	0.50	µg/L	1	6/12/2024 18:19
2-Methylnaphthalene	U		0.54	2.0	µg/L	1	6/12/2024 18:19
4-Chlorotoluene	U		0.38	0.50	µg/L	1	6/12/2024 18:19
4-Isopropyltoluene	U		0.43	0.50	µg/L	1	6/12/2024 18:19
4-Methyl-2-pentanone	U		0.82	1.0	µg/L	1	6/12/2024 18:19
Acetone	U		1.6	2.0	µg/L	1	6/12/2024 18:19
Acrylonitrile	U		0.47	1.0	µg/L	1	6/12/2024 18:19
Benzene	U		0.32	0.50	µg/L	1	6/12/2024 18:19
Bromobenzene	U		0.18	0.50	µg/L	1	6/12/2024 18:19
Bromochloromethane	U		0.29	0.50	µg/L	1	6/12/2024 18:19
Bromodichloromethane	U		0.39	0.50	µg/L	1	6/12/2024 18:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-11
Collection Date: 5/30/2024 02:10 PM

Work Order: 24051853
Lab ID: 24051853-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		0.13	0.50	µg/L	1	6/12/2024 18:19
Bromomethane	U		1.0	2.0	µg/L	1	6/12/2024 18:19
Carbon disulfide	U		0.58	1.0	µg/L	1	6/12/2024 18:19
Carbon tetrachloride	U		0.43	0.50	µg/L	1	6/12/2024 18:19
Chlorobenzene	U		0.35	0.50	µg/L	1	6/12/2024 18:19
Chloroethane	U		0.66	1.0	µg/L	1	6/12/2024 18:19
Chloroform	U		0.15	0.50	µg/L	1	6/12/2024 18:19
Chloromethane	U		0.74	1.0	µg/L	1	6/12/2024 18:19
cis-1,2-Dichloroethene	U		0.14	0.50	µg/L	1	6/12/2024 18:19
cis-1,3-Dichloropropene	U		0.50	0.50	µg/L	1	6/12/2024 18:19
Cyclohexane	U		0.72	1.0	µg/L	1	6/12/2024 18:19
Dibromochloromethane	U		0.46	0.50	µg/L	1	6/12/2024 18:19
Dibromomethane	U		0.27	0.50	µg/L	1	6/12/2024 18:19
Dichlorodifluoromethane	U		0.77	1.0	µg/L	1	6/12/2024 18:19
Diethyl ether	U		0.22	1.0	µg/L	1	6/12/2024 18:19
Ethyl methacrylate	U		0.15	0.50	µg/L	1	6/12/2024 18:19
Ethylbenzene	U		0.22	0.50	µg/L	1	6/12/2024 18:19
Hexachlorobutadiene	U		1.4	2.0	µg/L	1	6/12/2024 18:19
Hexachloroethane	U		0.90	1.0	µg/L	1	6/12/2024 18:19
Isopropylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 18:19
m,p-Xylene	U		0.34	1.0	µg/L	1	6/12/2024 18:19
Methyl iodide	U		1.1	2.0	µg/L	1	6/12/2024 18:19
Methyl tert-butyl ether	U		0.38	0.50	µg/L	1	6/12/2024 18:19
Methylene chloride	U		0.38	0.50	µg/L	1	6/12/2024 18:19
Naphthalene	U		0.15	0.50	µg/L	1	6/12/2024 18:19
n-Butylbenzene	U		0.72	1.0	µg/L	1	6/12/2024 18:19
n-Propylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 18:19
o-Xylene	U		0.17	0.50	µg/L	1	6/12/2024 18:19
sec-Butylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 18:19
Styrene	U		0.33	0.50	µg/L	1	6/12/2024 18:19
tert-Butylbenzene	U		0.15	0.50	µg/L	1	6/12/2024 18:19
Tetrachloroethene	U		0.48	0.50	µg/L	1	6/12/2024 18:19
Tetrahydrofuran	U		0.26	1.0	µg/L	1	6/12/2024 18:19
Toluene	U		0.16	0.50	µg/L	1	6/12/2024 18:19
trans-1,2-Dichloroethene	U		0.34	0.50	µg/L	1	6/12/2024 18:19
trans-1,3-Dichloropropene	U		0.18	0.50	µg/L	1	6/12/2024 18:19
trans-1,4-Dichloro-2-butene	U		0.19	0.50	µg/L	1	6/12/2024 18:19
Trichloroethene	U		0.33	0.50	µg/L	1	6/12/2024 18:19
Trichlorofluoromethane	U		0.29	0.50	µg/L	1	6/12/2024 18:19
Vinyl chloride	U		0.27	0.50	µg/L	1	6/12/2024 18:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-11
Collection Date: 5/30/2024 02:10 PM

Work Order: 24051853
Lab ID: 24051853-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes (Total)	U		0.51	1.5	µg/L	1	6/12/2024 18:19
Trihalomethanes, Total	U		0.46	0.50	µg/L	1	6/12/2024 18:19
Surr: 1,2-Dichloroethane-d4	*99.2*			*70-130*	*%REC*	1	6/12/2024 18:19
Surr: 4-Bromofluorobenzene	*100*			*70-130*	*%REC*	1	6/12/2024 18:19
Surr: Dibromofluoromethane	*90.6*			*70-130*	*%REC*	1	6/12/2024 18:19
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	6/12/2024 18:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/30/2024

Work Order: 24051853
Lab ID: 24051853-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **E524.2**					Analyst: **BAM**
1,1,1,2-Tetrachloroethane	U		0.22	0.50	µg/L	1	6/12/2024 17:25
1,1,1-Trichloroethane	U		0.29	0.50	µg/L	1	6/12/2024 17:25
1,1,2,2-Tetrachloroethane	U		0.17	0.50	µg/L	1	6/12/2024 17:25
1,1,2-Trichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 17:25
1,1-Dichloroethane	U		0.10	0.50	µg/L	1	6/12/2024 17:25
1,1-Dichloroethene	U		0.49	0.50	µg/L	1	6/12/2024 17:25
1,1-Dichloropropene	U		0.43	0.50	µg/L	1	6/12/2024 17:25
1,2,3-Trichlorobenzene	U		0.65	1.0	µg/L	1	6/12/2024 17:25
1,2,3-Trichloropropane	U		0.34	0.50	µg/L	1	6/12/2024 17:25
1,2,3-Trimethylbenzene	U		0.35	0.50	µg/L	1	6/12/2024 17:25
1,2,4-Trichlorobenzene	U		0.70	1.0	µg/L	1	6/12/2024 17:25
1,2,4-Trimethylbenzene	U		0.40	0.50	µg/L	1	6/12/2024 17:25
1,2-Dibromo-3-chloropropane	U		0.48	0.50	µg/L	1	6/12/2024 17:25
1,2-Dibromoethane	U		0.16	0.50	µg/L	1	6/12/2024 17:25
1,2-Dichlorobenzene	U		0.45	0.50	µg/L	1	6/12/2024 17:25
1,2-Dichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 17:25
1,2-Dichloropropane	U		0.44	0.50	µg/L	1	6/12/2024 17:25
1,3,5-Trimethylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 17:25
1,3-Dichlorobenzene	U		0.20	0.50	µg/L	1	6/12/2024 17:25
1,3-Dichloropropane	U		0.070	0.50	µg/L	1	6/12/2024 17:25
1,4-Dichlorobenzene	U		0.40	0.50	µg/L	1	6/12/2024 17:25
2,2-Dichloropropane	U		0.33	0.50	µg/L	1	6/12/2024 17:25
2-Butanone	U		0.68	1.0	µg/L	1	6/12/2024 17:25
2-Chlorotoluene	U		0.15	0.50	µg/L	1	6/12/2024 17:25
2-Hexanone	U		0.50	0.50	µg/L	1	6/12/2024 17:25
2-Methylnaphthalene	U		0.54	2.0	µg/L	1	6/12/2024 17:25
4-Chlorotoluene	U		0.38	0.50	µg/L	1	6/12/2024 17:25
4-Isopropyltoluene	U		0.43	0.50	µg/L	1	6/12/2024 17:25
4-Methyl-2-pentanone	U		0.82	1.0	µg/L	1	6/12/2024 17:25
Acetone	**2.5**		**1.6**	**2.0**	**µg/L**	1	6/12/2024 17:25
Acrylonitrile	U		0.47	1.0	µg/L	1	6/12/2024 17:25
Benzene	U		0.32	0.50	µg/L	1	6/12/2024 17:25
Bromobenzene	U		0.18	0.50	µg/L	1	6/12/2024 17:25
Bromochloromethane	U		0.29	0.50	µg/L	1	6/12/2024 17:25
Bromodichloromethane	U		0.39	0.50	µg/L	1	6/12/2024 17:25
Bromoform	U		0.13	0.50	µg/L	1	6/12/2024 17:25
Bromomethane	U		1.0	2.0	µg/L	1	6/12/2024 17:25
Carbon disulfide	U		0.58	1.0	µg/L	1	6/12/2024 17:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/30/2024

Work Order: 24051853
Lab ID: 24051853-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	U		0.43	0.50	µg/L	1	6/12/2024 17:25
Chlorobenzene	U		0.35	0.50	µg/L	1	6/12/2024 17:25
Chloroethane	U		0.66	1.0	µg/L	1	6/12/2024 17:25
Chloroform	U		0.15	0.50	µg/L	1	6/12/2024 17:25
Chloromethane	U		0.74	1.0	µg/L	1	6/12/2024 17:25
cis-1,2-Dichloroethene	U		0.14	0.50	µg/L	1	6/12/2024 17:25
cis-1,3-Dichloropropene	U		0.50	0.50	µg/L	1	6/12/2024 17:25
Cyclohexane	U		0.72	1.0	µg/L	1	6/12/2024 17:25
Dibromochloromethane	U		0.46	0.50	µg/L	1	6/12/2024 17:25
Dibromomethane	U		0.27	0.50	µg/L	1	6/12/2024 17:25
Dichlorodifluoromethane	U		0.77	1.0	µg/L	1	6/12/2024 17:25
Diethyl ether	U		0.22	1.0	µg/L	1	6/12/2024 17:25
Ethyl methacrylate	U		0.15	0.50	µg/L	1	6/12/2024 17:25
Ethylbenzene	U		0.22	0.50	µg/L	1	6/12/2024 17:25
Hexachlorobutadiene	U		1.4	2.0	µg/L	1	6/12/2024 17:25
Hexachloroethane	U		0.90	1.0	µg/L	1	6/12/2024 17:25
Isopropylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 17:25
m,p-Xylene	U		0.34	1.0	µg/L	1	6/12/2024 17:25
Methyl iodide	U		1.1	2.0	µg/L	1	6/12/2024 17:25
Methyl tert-butyl ether	U		0.38	0.50	µg/L	1	6/12/2024 17:25
Methylene chloride	U		0.38	0.50	µg/L	1	6/12/2024 17:25
Naphthalene	U		0.15	0.50	µg/L	1	6/12/2024 17:25
n-Butylbenzene	U		0.72	1.0	µg/L	1	6/12/2024 17:25
n-Propylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 17:25
o-Xylene	U		0.17	0.50	µg/L	1	6/12/2024 17:25
sec-Butylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 17:25
Styrene	U		0.33	0.50	µg/L	1	6/12/2024 17:25
tert-Butylbenzene	U		0.15	0.50	µg/L	1	6/12/2024 17:25
Tetrachloroethene	U		0.48	0.50	µg/L	1	6/12/2024 17:25
Tetrahydrofuran	U		0.26	1.0	µg/L	1	6/12/2024 17:25
Toluene	U		0.16	0.50	µg/L	1	6/12/2024 17:25
trans-1,2-Dichloroethene	U		0.34	0.50	µg/L	1	6/12/2024 17:25
trans-1,3-Dichloropropene	U		0.18	0.50	µg/L	1	6/12/2024 17:25
trans-1,4-Dichloro-2-butene	U		0.19	0.50	µg/L	1	6/12/2024 17:25
Trichloroethene	U		0.33	0.50	µg/L	1	6/12/2024 17:25
Trichlorofluoromethane	U		0.29	0.50	µg/L	1	6/12/2024 17:25
Vinyl chloride	U		0.27	0.50	µg/L	1	6/12/2024 17:25
Xylenes (Total)	U		0.51	1.5	µg/L	1	6/12/2024 17:25
Trihalomethanes, Total	U		0.46	0.50	µg/L	1	6/12/2024 17:25
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	6/12/2024 17:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *13-Jun-24*

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/30/2024

Work Order: 24051853
Lab ID: 24051853-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*99.7*			*70-130*	*%REC*	1	6/12/2024 17:25
Surr: Dibromofluoromethane	*101*			*70-130*	*%REC*	1	6/12/2024 17:25
Surr: Toluene-d8	*99.6*			*70-130*	*%REC*	1	6/12/2024 17:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jun-24

Client: Gannett Fleming, Inc.

Work Order: 24051853

Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405747** Instrument ID **VMS7** Method: **SW8260D**

MBLK Sample ID: **7V-BLKW2-240612-R405747** Units: **µg/L** Analysis Date: **6/12/2024 07:36 PM**

Client ID: Run ID: **VMS7_240612A** SeqNo: **10856114** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	U	0.44	1.0								
Surr: Toluene-d8	*4.67*	0	0	*5*	0	*93.4*	*74-124*	0			

LCS Sample ID: **7V-LCSW2-240612-R405747** Units: **µg/L** Analysis Date: **6/12/2024 06:42 PM**

Client ID: Run ID: **VMS7_240612A** SeqNo: **10856112** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	40.21	0.44	1.0	40	0	101	70-130	0			
Surr: Toluene-d8	*4.48*	0	0	*5*	0	*89.6*	*74-124*	0			

MS Sample ID: **24051862-07B MS** Units: **µg/L** Analysis Date: **6/13/2024 01:44 AM**

Client ID: Run ID: **VMS7_240612A** SeqNo: **10856135** Prep Date: DF: **1000**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	38330	440	1,000	40000	4630	84.2	70-130	0			
Surr: Toluene-d8	*5760*	0	0	*5000*	0	*115*	*74-124*	0			

MSD Sample ID: **24051862-07B MSD** Units: **µg/L** Analysis Date: **6/13/2024 02:01 AM**

Client ID: Run ID: **VMS7_240612A** SeqNo: **10856136** Prep Date: DF: **1000**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	38820	440	1,000	40000	4630	85.5	70-130	38330	1.27	30	
Surr: Toluene-d8	*5490*	0	0	*5000*	0	*110*	*74-124*	5760	*4.8*	*30*	

The following samples were analyzed in this batch: 24051853-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

MBLK Sample ID: **10V-BLKW2-240612-R405758a** Units: **µg/L** Analysis Date: **6/12/2024 04:58 PM**
Client ID: Run ID: **VMS10_240612A** SeqNo: **10856514** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.22	0.50								
1,1,1-Trichloroethane	U	0.29	0.50								
1,1,2,2-Tetrachloroethane	U	0.17	0.50								
1,1,2-Trichloroethane	U	0.46	0.50								
1,1-Dichloroethane	U	0.1	0.50								
1,1-Dichloroethene	U	0.49	0.50								
1,1-Dichloropropene	U	0.43	0.50								
1,2,3-Trichlorobenzene	U	0.65	1.0								
1,2,3-Trichloropropane	U	0.34	0.50								
1,2,3-Trimethylbenzene	U	0.35	0.50								
1,2,4-Trichlorobenzene	U	0.7	1.0								
1,2,4-Trimethylbenzene	U	0.4	0.50								
1,2-Dibromo-3-chloropropane	U	0.48	0.50								
1,2-Dibromoethane	U	0.16	0.50								
1,2-Dichlorobenzene	U	0.45	0.50								
1,2-Dichloroethane	U	0.46	0.50								
1,2-Dichloropropane	U	0.44	0.50								
1,3,5-Trimethylbenzene	U	0.46	0.50								
1,3-Dichlorobenzene	U	0.2	0.50								
1,3-Dichloropropane	U	0.07	0.50								
1,4-Dichlorobenzene	U	0.4	0.50								
2,2-Dichloropropane	U	0.33	0.50								
2-Butanone	U	0.68	1.0								
2-Chlorotoluene	U	0.15	0.50								
2-Hexanone	U	0.5	0.50								
2-Methylnaphthalene	U	0.54	2.0								
4-Chlorotoluene	U	0.38	0.50								
4-Isopropyltoluene	U	0.43	0.50								
4-Methyl-2-pentanone	U	0.82	1.0								
Acetone	U	1.6	2.0								
Acrylonitrile	U	0.47	1.0								
Benzene	U	0.32	0.50								
Bromobenzene	U	0.18	0.50								
Bromochloromethane	U	0.29	0.50								
Bromodichloromethane	U	0.39	0.50								
Bromoform	U	0.13	0.50								
Bromomethane	U	1	2.0								
Carbon disulfide	U	0.58	1.0								
Carbon tetrachloride	U	0.43	0.50								
Chlorobenzene	U	0.35	0.50								
Chloroethane	U	0.66	1.0								
Chloroform	U	0.15	0.50								
Chloromethane	U	0.74	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

cis-1,2-Dichloroethene	U	0.14	0.50					
cis-1,3-Dichloropropene	U	0.5	0.50					
Cyclohexane	U	0.72	1.0					
Dibromochloromethane	U	0.46	0.50					
Dibromomethane	U	0.27	0.50					
Dichlorodifluoromethane	U	0.77	1.0					
Diethyl ether	U	0.22	1.0					
Ethyl methacrylate	U	0.15	0.50					
Ethylbenzene	U	0.22	0.50					
Hexachlorobutadiene	U	1.4	2.0					
Hexachloroethane	U	0.9	1.0					
Isopropylbenzene	U	0.13	0.50					
m,p-Xylene	U	0.34	1.0					
Methyl iodide	U	1.1	2.0					
Methyl tert-butyl ether	U	0.38	0.50					
Methylene chloride	U	0.38	0.50					
Naphthalene	U	0.15	0.50					
n-Butylbenzene	U	0.72	1.0					
n-Propylbenzene	U	0.46	0.50					
o-Xylene	U	0.17	0.50					
sec-Butylbenzene	U	0.13	0.50					
Styrene	U	0.33	0.50					
tert-Butylbenzene	U	0.15	0.50					
Tetrachloroethene	U	0.48	0.50					
Tetrahydrofuran	U	0.26	1.0					
Toluene	U	0.16	0.50					
trans-1,2-Dichloroethene	U	0.34	0.50					
trans-1,3-Dichloropropene	U	0.18	0.50					
trans-1,4-Dichloro-2-butene	U	0.19	0.50					
Trichloroethene	U	0.33	0.50					
Trichlorofluoromethane	U	0.29	0.50					
Vinyl chloride	U	0.27	0.50					
Xylenes (Total)	U	0.51	1.5					
Trihalomethanes, Total	U	0.46	0.50					
Surr: 1,2-Dichloroethane-d4	*19.96*	0	0	*20*	0	*99.8*	*70-130*	0
Surr: 4-Bromofluorobenzene	*19.64*	0	0	*20*	0	*98.2*	*70-130*	0
Surr: Dibromofluoromethane	*19.69*	0	0	*20*	0	*98.4*	*70-130*	0
Surr: Toluene-d8	*20.17*	0	0	*20*	0	*101*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

LCS Sample ID: **10V-LCSW1-240612-R405758a** Units: **µg/L** Analysis Date: **6/12/2024 04:00 PM**

Client ID: Run ID: **VMS10_240612A** SeqNo: **10856513** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	5.54	0.22	0.50	5	0	111	70-130	0			
1,1,1-Trichloroethane	5.35	0.29	0.50	5	0	107	70-130	0			
1,1,2,2-Tetrachloroethane	5.35	0.17	0.50	5	0	107	70-130	0			
1,1,2-Trichloroethane	5.53	0.46	0.50	5	0	111	70-130	0			
1,1-Dichloroethane	5.78	0.1	0.50	5	0	116	70-130	0			
1,1-Dichloroethene	6.02	0.49	0.50	5	0	120	70-130	0			
1,1-Dichloropropene	5.23	0.43	0.50	5	0	105	70-130	0			
1,2,3-Trichlorobenzene	5.75	0.65	1.0	5	0	115	70-130	0			
1,2,3-Trichloropropane	4.8	0.34	0.50	5	0	96	70-130	0			
1,2,3-Trimethylbenzene	5.95	0.35	0.50	5	0	119	70-130	0			
1,2,4-Trichlorobenzene	6.03	0.7	1.0	5	0	121	70-130	0			
1,2,4-Trimethylbenzene	5.82	0.4	0.50	5	0	116	70-130	0			
1,2-Dibromo-3-chloropropane	5.01	0.48	0.50	5	0	100	70-130	0			
1,2-Dibromoethane	5.48	0.16	0.50	5	0	110	70-130	0			
1,2-Dichlorobenzene	5.94	0.45	0.50	5	0	119	70-130	0			
1,2-Dichloroethane	5.34	0.46	0.50	5	0	107	70-130	0			
1,2-Dichloropropane	6.15	0.44	0.50	5	0	123	70-130	0			
1,3,5-Trimethylbenzene	5.9	0.46	0.50	5	0	118	70-130	0			
1,3-Dichlorobenzene	6.03	0.2	0.50	5	0	121	70-130	0			
1,3-Dichloropropane	5.62	0.07	0.50	5	0	112	70-130	0			
1,4-Dichlorobenzene	6.29	0.4	0.50	5	0	126	70-130	0			
2,2-Dichloropropane	5.96	0.33	0.50	5	0	119	70-130	0			
2-Butanone	5.5	0.68	1.0	5	0	110	70-130	0			
2-Chlorotoluene	6.07	0.15	0.50	5	0	121	70-130	0			
2-Hexanone	5.61	0.5	0.50	5	0	112	70-130	0			
4-Chlorotoluene	5.92	0.38	0.50	5	0	118	70-130	0			
Acetone	5.74	1.6	2.0	5	0	115	70-130	0			
Acrylonitrile	4.76	0.47	1.0	5	0	95.2	70-130	0			
Benzene	6.41	0.32	0.50	5	0	128	70-130	0			
Bromobenzene	5.84	0.18	0.50	5	0	117	70-130	0			
Bromochloromethane	6.09	0.29	0.50	5	0	122	70-130	0			
Bromodichloromethane	5.63	0.39	0.50	5	0	113	70-130	0			
Bromoform	5.12	0.13	0.50	5	0	102	70-130	0			
Bromomethane	7.48	1	2.0	5	0	150	70-130	0			S
Carbon disulfide	5.65	0.58	1.0	5	0	113	70-130	0			
Carbon tetrachloride	5.25	0.43	0.50	5	0	105	70-130	0			
Chlorobenzene	6.16	0.35	0.50	5	0	123	70-130	0			
Chloroethane	5.92	0.66	1.0	5	0	118	70-130	0			
Chloroform	5.73	0.15	0.50	5	0	115	70-130	0			
Chloromethane	5.53	0.74	1.0	5	0	111	70-130	0			
cis-1,2-Dichloroethene	6.28	0.14	0.50	5	0	126	70-130	0			
cis-1,3-Dichloropropene	5.29	0.5	0.50	5	0	106	70-130	0			
Dibromochloromethane	5.26	0.46	0.50	5	0	105	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a**	Instrument ID **VMS10**				Method: **E524.2**				
Dibromomethane	5.32	0.27	0.50	5	0	106	70-130	0	
Dichlorodifluoromethane	2.95	0.77	1.0	5	0	59	70-130	0	S
Ethylbenzene	6.02	0.22	0.50	5	0	120	70-130	0	
Hexachlorobutadiene	6.77	1.4	2.0	5	0	135	70-130	0	S
Hexachloroethane	4.73	0.9	1.0	5	0	94.6	70-130	0	
Isopropylbenzene	6.03	0.13	0.50	5	0	121	70-130	0	
m,p-Xylene	11.89	0.34	1.0	10	0	119	70-130	0	
Methyl iodide	7.53	1.1	2.0	5	0	151	70-130	0	S
Methyl tert-butyl ether	5.65	0.38	0.50	5	0	113	70-130	0	
Methylene chloride	5.88	0.38	0.50	5	0	118	70-130	0	
Naphthalene	5.21	0.15	0.50	5	0	104	70-130	0	
n-Butylbenzene	5.34	0.72	1.0	5	0	107	70-130	0	
n-Propylbenzene	5.83	0.46	0.50	5	0	117	70-130	0	
o-Xylene	6.01	0.17	0.50	5	0	120	70-130	0	
sec-Butylbenzene	5.6	0.13	0.50	5	0	112	70-130	0	
Styrene	6.22	0.33	0.50	5	0	124	70-130	0	
tert-Butylbenzene	5.71	0.15	0.50	5	0	114	70-130	0	
Tetrachloroethene	5.74	0.48	0.50	5	0	115	70-130	0	
Toluene	6.58	0.16	0.50	5	0	132	70-130	0	S
trans-1,2-Dichloroethene	6.17	0.34	0.50	5	0	123	70-130	0	
trans-1,3-Dichloropropene	5.16	0.18	0.50	5	0	103	70-130	0	
Trichloroethene	5.93	0.33	0.50	5	0	119	70-130	0	
Trichlorofluoromethane	4.32	0.29	0.50	5	0	86.4	70-130	0	
Vinyl chloride	4.89	0.27	0.50	5	0	97.8	70-130	0	
Xylenes (Total)	17.9	0.51	1.5	15	0	119	70-130	0	
Surr: 1,2-Dichloroethane-d4	*19.71*	0	0	*20*	0	*98.6*	*70-130*	0	
Surr: 4-Bromofluorobenzene	*19.92*	0	0	*20*	0	*99.6*	*70-130*	0	
Surr: Dibromofluoromethane	*19.76*	0	0	*20*	0	*98.8*	*70-130*	0	
Surr: Toluene-d8	*19.53*	0	0	*20*	0	*97.6*	*70-130*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

MS Sample ID: **HN2403017-001 MS** Units: **µg/L** Analysis Date: **6/12/2024 09:31 PM**
Client ID: Run ID: **VMS10_240612A** SeqNo: **10856521** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	5.27	0.22	0.50	5	0	105	70-130	0			
1,1,1-Trichloroethane	4.57	0.29	0.50	5	0	91.4	70-130	0			
1,1,2,2-Tetrachloroethane	5.42	0.17	0.50	5	0	108	70-130	0			
1,1,2-Trichloroethane	5.5	0.46	0.50	5	0	110	70-130	0			
1,1-Dichloroethane	3.77	0.1	0.50	5	0	75.4	70-130	0			
1,1-Dichloroethene	7.56	0.49	0.50	5	0	151	70-130	0			S
1,1-Dichloropropene	5.09	0.43	0.50	5	0	102	70-130	0			
1,2,3-Trichlorobenzene	5.2	0.65	1.0	5	0	104	70-130	0			
1,2,3-Trichloropropane	5.82	0.34	0.50	5	0	116	70-130	0			
1,2,3-Trimethylbenzene	0.84	0.35	0.50	5	0	16.8	70-130	0			S
1,2,4-Trichlorobenzene	4.68	0.7	1.0	5	0	93.6	70-130	0			
1,2,4-Trimethylbenzene	0.66	0.4	0.50	5	0	13.2	70-130	0			S
1,2-Dibromo-3-chloropropane	4.7	0.48	0.50	5	0	94	70-130	0			
1,2-Dibromoethane	5.83	0.16	0.50	5	0	117	70-130	0			
1,2-Dichlorobenzene	5.45	0.45	0.50	5	0	109	70-130	0			
1,2-Dichloroethane	5.16	0.46	0.50	5	0	103	70-130	0			
1,2-Dichloropropane	5.58	0.44	0.50	5	0	112	70-130	0			
1,3,5-Trimethylbenzene	U	0.46	0.50	5	0	0	70-130	0			S
1,3-Dichlorobenzene	5.26	0.2	0.50	5	0	105	70-130	0			
1,3-Dichloropropane	5.54	0.07	0.50	5	0	111	70-130	0			
1,4-Dichlorobenzene	5.26	0.4	0.50	5	0	105	70-130	0			
2,2-Dichloropropane	0.85	0.33	0.50	5	0	17	70-130	0			S
2-Butanone	4.78	0.68	1.0	5	0	95.6	70-130	0			
2-Chlorotoluene	5.55	0.15	0.50	5	0	111	70-130	0			
2-Hexanone	6.05	0.5	0.50	5	0	121	70-130	0			
4-Chlorotoluene	4.74	0.38	0.50	5	0	94.8	70-130	0			
Acetone	9.19	1.6	2.0	5	0	184	70-130	0			S
Acrylonitrile	4.69	0.47	1.0	5	0	93.8	70-130	0			
Benzene	5.74	0.32	0.50	5	0	115	70-130	0			
Bromobenzene	5.31	0.18	0.50	5	0	106	70-130	0			
Bromochloromethane	4.69	0.29	0.50	5	0	93.8	70-130	0			
Bromodichloromethane	16.54	0.39	0.50	5	0	331	70-130	0			S
Bromoform	5.24	0.13	0.50	5	0	105	70-130	0			
Bromomethane	1.22	1	2.0	5	0	24.4	70-130	0			JS
Carbon disulfide	6.19	0.58	1.0	5	0	124	70-130	0			
Carbon tetrachloride	4.07	0.43	0.50	5	0	81.4	70-130	0			
Chlorobenzene	5.68	0.35	0.50	5	0	114	70-130	0			
Chloroethane	4.57	0.66	1.0	5	0	91.4	70-130	0			
Chloroform	35.41	0.15	0.50	5	0	708	70-130	0			S
Chloromethane	5.44	0.74	1.0	5	0	109	70-130	0			
cis-1,2-Dichloroethene	5.25	0.14	0.50	5	0	105	70-130	0			
cis-1,3-Dichloropropene	4.26	0.5	0.50	5	0	85.2	70-130	0			
Dibromochloromethane	8.31	0.46	0.50	5	0	166	70-130	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

Dibromomethane	5.52	0.27	0.50	5	0	110	70-130	0	
Dichlorodifluoromethane	4.72	0.77	1.0	5	0	94.4	70-130	0	
Ethylbenzene	5.47	0.22	0.50	5	0	109	70-130	0	
Hexachlorobutadiene	5.36	1.4	2.0	5	0	107	70-130	0	
Hexachloroethane	3.76	0.9	1.0	5	0	75.2	70-130	0	
Isopropylbenzene	5.65	0.13	0.50	5	0	113	70-130	0	
m,p-Xylene	7.35	0.34	1.0	10	0	73.5	70-130	0	
Methyl iodide	U	1.1	2.0	5	0	0	70-130	0	S
Methyl tert-butyl ether	3.55	0.38	0.50	5	0	71	70-130	0	
Methylene chloride	5.88	0.38	0.50	5	0	118	70-130	0	
Naphthalene	4.18	0.15	0.50	5	0	83.6	70-130	0	
n-Butylbenzene	4.89	0.72	1.0	5	0	97.8	70-130	0	
n-Propylbenzene	5.24	0.46	0.50	5	0	105	70-130	0	
o-Xylene	5.26	0.17	0.50	5	0	105	70-130	0	
sec-Butylbenzene	5.4	0.13	0.50	5	0	108	70-130	0	
Styrene	U	0.33	0.50	5	0	0	70-130	0	S
tert-Butylbenzene	5.08	0.15	0.50	5	0	102	70-130	0	
Tetrachloroethene	6.1	0.48	0.50	5	0	122	70-130	0	
Toluene	5.86	0.16	0.50	5	0	117	70-130	0	
trans-1,2-Dichloroethene	5.85	0.34	0.50	5	0	117	70-130	0	
trans-1,3-Dichloropropene	3.97	0.18	0.50	5	0	79.4	70-130	0	
Trichloroethene	5.95	0.33	0.50	5	0	119	70-130	0	
Trichlorofluoromethane	5.04	0.29	0.50	5	0	101	70-130	0	
Vinyl chloride	5.99	0.27	0.50	5	0	120	70-130	0	
Xylenes (Total)	12.61	0.51	1.5	15	0	84.1	70-130	0	
Surr: 1,2-Dichloroethane-d4	*20.29*	0	0	*20*	0	*101*	*70-130*	0	
Surr: 4-Bromofluorobenzene	*19.53*	0	0	*20*	0	*97.6*	*70-130*	0	
Surr: Dibromofluoromethane	*19.3*	0	0	*20*	0	*96.5*	*70-130*	0	
Surr: Toluene-d8	*20.16*	0	0	*20*	0	*101*	*70-130*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

DUP Sample ID: **HN2403016-001 DUP** Units: **µg/L** Analysis Date: **6/12/2024 09:04 PM**

Client ID: Run ID: **VMS10_240612A** SeqNo: **10856520** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.22	0.50	0	0	0		0	0	30	
1,1,1-Trichloroethane	U	0.29	0.50	0	0	0		0	0	30	
1,1,2,2-Tetrachloroethane	U	0.17	0.50	0	0	0		0	0	30	
1,1,2-Trichloroethane	U	0.46	0.50	0	0	0		0	0	30	
1,1-Dichloroethane	U	0.1	0.50	0	0	0		0	0	30	
1,1-Dichloroethene	U	0.49	0.50	0	0	0		0	0	30	
1,1-Dichloropropene	U	0.43	0.50	0	0	0		0	0	30	
1,2,3-Trichlorobenzene	U	0.65	1.0	0	0	0		0	0	30	
1,2,3-Trichloropropane	U	0.34	0.50	0	0	0		0	0	30	
1,2,3-Trimethylbenzene	U	0.35	0.50	0	0	0		0	0	30	
1,2,4-Trichlorobenzene	U	0.7	1.0	0	0	0		0	0	30	
1,2,4-Trimethylbenzene	U	0.4	0.50	0	0	0		0	0	30	
1,2-Dibromo-3-chloropropane	U	0.48	0.50	0	0	0		0	0	30	
1,2-Dibromoethane	U	0.16	0.50	0	0	0		0	0	30	
1,2-Dichlorobenzene	U	0.45	0.50	0	0	0		0	0	30	
1,2-Dichloroethane	U	0.46	0.50	0	0	0		0	0	30	
1,2-Dichloropropane	U	0.44	0.50	0	0	0		0	0	30	
1,3,5-Trimethylbenzene	U	0.46	0.50	0	0	0		0	0	30	
1,3-Dichlorobenzene	U	0.2	0.50	0	0	0		0	0	30	
1,3-Dichloropropane	U	0.07	0.50	0	0	0		0	0	30	
1,4-Dichlorobenzene	U	0.4	0.50	0	0	0		0	0	30	
2,2-Dichloropropane	U	0.33	0.50	0	0	0		0	0	30	
2-Butanone	U	0.68	1.0	0	0	0		0	0	30	
2-Chlorotoluene	U	0.15	0.50	0	0	0		0	0	30	
2-Hexanone	U	0.5	0.50	0	0	0		0	0	30	
2-Methylnaphthalene	U	0.54	2.0	0	0	0		0	0	30	
4-Chlorotoluene	U	0.38	0.50	0	0	0		0	0	30	
4-Isopropyltoluene	U	0.43	0.50	0	0	0		0	0	30	
4-Methyl-2-pentanone	U	0.82	1.0	0	0	0		0	0	30	
Acetone	U	1.6	2.0	0	0	0		0	0	30	
Acrylonitrile	U	0.47	1.0	0	0	0		0	0	30	
Benzene	U	0.32	0.50	0	0	0		0	0	30	
Bromobenzene	U	0.18	0.50	0	0	0		0	0	30	
Bromochloromethane	U	0.29	0.50	0	0	0		0	0	30	
Bromodichloromethane	10.93	0.39	0.50	0	0	0		9.91	9.79	30	
Bromoform	U	0.13	0.50	0	0	0		0	0	30	
Bromomethane	U	1	2.0	0	0	0		0	0	30	
Carbon disulfide	U	0.58	1.0	0	0	0		0	0	30	
Carbon tetrachloride	U	0.43	0.50	0	0	0		0	0	30	
Chlorobenzene	U	0.35	0.50	0	0	0		0	0	30	
Chloroethane	U	0.66	1.0	0	0	0		0	0	30	
Chloroform	31.54	0.15	0.50	0	0	0		30.86	2.18	30	
Chloromethane	U	0.74	1.0	0	0	0		0	0	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051853
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

cis-1,2-Dichloroethene	U	0.14	0.50	0	0	0		0	0	30
cis-1,3-Dichloropropene	U	0.5	0.50	0	0	0		0	0	30
Cyclohexane	U	0.72	1.0	0	0	0		0	0	30
Dibromochloromethane	2.68	0.46	0.50	0	0	0		2.39	11.4	30
Dibromomethane	U	0.27	0.50	0	0	0		0	0	30
Dichlorodifluoromethane	U	0.77	1.0	0	0	0		0	0	30
Diethyl ether	U	0.22	1.0	0	0	0		0	0	30
Ethyl methacrylate	U	0.15	0.50	0	0	0		0	0	30
Ethylbenzene	U	0.22	0.50	0	0	0		0	0	30
Hexachlorobutadiene	U	1.4	2.0	0	0	0		0	0	30
Hexachloroethane	U	0.9	1.0	0	0	0		0	0	30
Isopropylbenzene	U	0.13	0.50	0	0	0		0	0	30
m,p-Xylene	U	0.34	1.0	0	0	0		0	0	30
Methyl iodide	U	1.1	2.0	0	0	0		0	0	30
Methyl tert-butyl ether	U	0.38	0.50	0	0	0		0	0	30
Methylene chloride	U	0.38	0.50	0	0	0		0	0	30
Naphthalene	U	0.15	0.50	0	0	0		0	0	30
n-Butylbenzene	U	0.72	1.0	0	0	0		0	0	30
n-Propylbenzene	U	0.46	0.50	0	0	0		0	0	30
o-Xylene	U	0.17	0.50	0	0	0		0	0	30
sec-Butylbenzene	U	0.13	0.50	0	0	0		0	0	30
Styrene	U	0.33	0.50	0	0	0		0	0	30
tert-Butylbenzene	U	0.15	0.50	0	0	0		0	0	30
Tetrachloroethene	U	0.48	0.50	0	0	0		0	0	30
Tetrahydrofuran	U	0.26	1.0	0	0	0		0	0	30
Toluene	U	0.16	0.50	0	0	0		0	0	30
trans-1,2-Dichloroethene	U	0.34	0.50	0	0	0		0	0	30
trans-1,3-Dichloropropene	U	0.18	0.50	0	0	0		0	0	30
trans-1,4-Dichloro-2-butene	U	0.19	0.50	0	0	0		0	0	30
Trichloroethene	U	0.33	0.50	0	0	0		0	0	30
Trichlorofluoromethane	U	0.29	0.50	0	0	0		0	0	30
Vinyl chloride	U	0.27	0.50	0	0	0		0	0	30
Xylenes (Total)	U	0.51	1.5	0	0	0		0	0	30
Trihalomethanes, Total	45.15	0.46	0.50	0	0	0		43.16	4.51	
Surr: 1,2-Dichloroethane-d4	*20.24*	0	0	*20*	0	*101*	*70-130*	19.51	*3.67*	*30*
Surr: 4-Bromofluorobenzene	*19.48*	0	0	*20*	0	*97.4*	*70-130*	20.4	*4.61*	*30*
Surr: Dibromofluoromethane	*17.72*	0	0	*20*	0	*88.6*	*70-130*	18.08	*2.01*	*30*
Surr: Toluene-d8	*19.67*	0	0	*20*	0	*98.4*	*70-130*	19.82	*0.76*	*30*

The following samples were analyzed in this batch: 24051853-01A 24051853-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	Gannett Fleming, Inc.	Purchase Order		Parameter/Method Request for Analysis	
		Company Name	Gannett Fleming, Inc.	A	VOC (524.2)
Send Report To	ANTHONY MILLER	Invoice Attn	Accounts Payable	B	1,4-DIOXANE
Project Name	WRR	Project #	55929.005	C	
Address	8040 Excelsior Drive Suite 303	Address	8040 Excelsior Drive Suite 303 Suite 303	D	
				E	
				F	
City State Zip	Madison, WI 53717-1338	City State Zip	Madison, WI 53717-1338	G	
Phone	608-354-~~8~~730	Phone	SAME	H	
e-Mail Address	awmiller@gfnet.com	e-Mail Address		I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	PW-11	5/30/24	14:10	W	1,8	6	✓	✓									
2	TRIP BLANK	—	—	W	1,8		✓										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

24051853

GANNETTFLEMING - WI: Gannett Fleming, Inc.

Project: WRR (55929.005)

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: _____

X Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquised by	Date	Time	Received by	Date	Time
[signature]	5/30/24	17:30	FEDEX [signature]	5/31/24	1000

NOTES: 3.2°C IR3

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like

Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **GANNETTFLEMING - WI** Date/Time Received: **31-May-24 10:00**

Work Order: **24051853** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 31-May-24 (Date) Reviewed by: Jodi Blouw (eSignature) 03-Jun-24 (Date)

Matrices: Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2/4.2 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/31/2024 1:50:35 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

GANNETT FLEMING

8040 Excelsior Drive
Suite 300
Madison, WI 53717
P 608.327.5050

gannettfleming.com

June 19, 2024
File #55929.005

Ms. Hai Xia Shan
5535 Wild Rose Lane
Eau Claire, WI 54701

Re: Laboratory Results for Water Sample Collected from PW-16 in May 2024

Dear Ms. Shan:

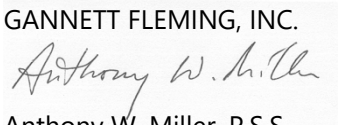
On May 30, 2024, Gannett Fleming, Inc. collected a water sample from your home at 5535 Wild Rose Lane. The sample was collected as a follow-up to the water samples previously collected from your home in conjunction with on-going groundwater monitoring and remedial activities associated with the WRR Environmental Services facility on Ryder Road. The monitoring and remedial activities at the WRR site are being conducted under the oversight of the Wisconsin Department of Natural Resources (WDNR).

Our designation for your water sample is PW-16. The water sample collected from your home in May was sent to ALS Laboratory in Holland, Michigan, for analysis of 77 individual volatile organic compounds (VOCs). No VOCs were detected in the water sample collected from your well. However, a trace of acetone (2.5 micrograms per liter, equivalent to parts per billion) was measured in the trip blank that was analyzed with your sample. Acetone is solvent used in the laboratory and its presence is not reflective of water quality of your well. The laboratory report for the water sample collected from your well is attached to this letter.

A copy of this letter and the May 2024 lab report are being sent to the WDNR for its records. We thank you for your cooperation. Someone from Gannett Fleming will contact you next spring to schedule a convenient time for us to collect the next sample. In the meantime, if you have any questions regarding the analytical results of the samples collected in May 2024, please call me at the number listed below.

Sincerely,

GANNETT FLEMING, INC.



Anthony W. Miller, P.S.S.
Senior Environmental Scientist
awmiller@gfnet.com
Ph: 608-354-7730

AWM/kmw/Enc.

ecc: Matthew Vitale (WDNR)

GF File

13-Jun-2024

Anthony Miller
Gannett Fleming, Inc.
8040 Excelsior Drive
Suite 303
Madison, WI 53717-1338

Re: **WRR (55929.005)** Work Order: **24051860**

Dear Anthony,

ALS Environmental received 2 samples on 31-May-2024 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 22.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Jodi Blouw

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: WI: 399084510

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: **24051860**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
24051860-01	PW-16	Water		5/30/2024 15:40	5/31/2024 10:00	☐
24051860-02	Trip Blank	Water		5/30/2024	5/31/2024 10:00	☐

ALS Group USA, Corp

Date: *Jun 13, 2024*

CLIENT:	Gannett Fleming, Inc.	**Client Sample ID:**	Trip Blank
Work Order:	24051860	**Collection Date:**	5/30/2024
Project:	WRR (55929.005)		
Lab ID:	24051860-02	**Matrix:**	WATER

Analyses	Result	MDL	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**E524.2**		Prep Date:		Analyst: **BAM**
Acetone	2.5	1.6	2.0		µg/L	1	6/12/2024

Qualifiers:

U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: **24051860**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 24051860

Case Narrative

Samples for the above noted Work Order were received on 5/31/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch R405758a, Method E524.2, Sample 10V-LCSW1-240612: The LCS recovery was below the lower control limit. The sample results for this batch may be biased low for this analyte: dichlorodifluoromethane

Batch R405758a, Method E524.2, Sample 10V-LCSW1-240612: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: bromomethane, hexachlorobutadiene, methyl iodide, toluene
No other deviations or anomalies were noted.

ALS Group, USA

Date: *13-Jun-24*

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-16
Collection Date: 5/30/2024 03:40 PM

Work Order: 24051860
Lab ID: 24051860-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-DIOXANE BY SELECT ION MONITORING		Method: **SW8260D**					Analyst: **NTJ**
1,4-Dioxane	U		0.44	1.0	µg/L	1	6/13/2024 05:13
Surr: Toluene-d8	*106*			*74-124*	*%REC*	1	6/13/2024 05:13
VOLATILE ORGANIC COMPOUNDS		Method: **E524.2**					Analyst: **BAM**
1,1,1,2-Tetrachloroethane	U		0.22	0.50	µg/L	1	6/12/2024 17:52
1,1,1-Trichloroethane	U		0.29	0.50	µg/L	1	6/12/2024 17:52
1,1,2,2-Tetrachloroethane	U		0.17	0.50	µg/L	1	6/12/2024 17:52
1,1,2-Trichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 17:52
1,1-Dichloroethane	U		0.10	0.50	µg/L	1	6/12/2024 17:52
1,1-Dichloroethene	U		0.49	0.50	µg/L	1	6/12/2024 17:52
1,1-Dichloropropene	U		0.43	0.50	µg/L	1	6/12/2024 17:52
1,2,3-Trichlorobenzene	U		0.65	1.0	µg/L	1	6/12/2024 17:52
1,2,3-Trichloropropane	U		0.34	0.50	µg/L	1	6/12/2024 17:52
1,2,3-Trimethylbenzene	U		0.35	0.50	µg/L	1	6/12/2024 17:52
1,2,4-Trichlorobenzene	U		0.70	1.0	µg/L	1	6/12/2024 17:52
1,2,4-Trimethylbenzene	U		0.40	0.50	µg/L	1	6/12/2024 17:52
1,2-Dibromo-3-chloropropane	U		0.48	0.50	µg/L	1	6/12/2024 17:52
1,2-Dibromoethane	U		0.16	0.50	µg/L	1	6/12/2024 17:52
1,2-Dichlorobenzene	U		0.45	0.50	µg/L	1	6/12/2024 17:52
1,2-Dichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 17:52
1,2-Dichloropropane	U		0.44	0.50	µg/L	1	6/12/2024 17:52
1,3,5-Trimethylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 17:52
1,3-Dichlorobenzene	U		0.20	0.50	µg/L	1	6/12/2024 17:52
1,3-Dichloropropane	U		0.070	0.50	µg/L	1	6/12/2024 17:52
1,4-Dichlorobenzene	U		0.40	0.50	µg/L	1	6/12/2024 17:52
2,2-Dichloropropane	U		0.33	0.50	µg/L	1	6/12/2024 17:52
2-Butanone	U		0.68	1.0	µg/L	1	6/12/2024 17:52
2-Chlorotoluene	U		0.15	0.50	µg/L	1	6/12/2024 17:52
2-Hexanone	U		0.50	0.50	µg/L	1	6/12/2024 17:52
2-Methylnaphthalene	U		0.54	2.0	µg/L	1	6/12/2024 17:52
4-Chlorotoluene	U		0.38	0.50	µg/L	1	6/12/2024 17:52
4-Isopropyltoluene	U		0.43	0.50	µg/L	1	6/12/2024 17:52
4-Methyl-2-pentanone	U		0.82	1.0	µg/L	1	6/12/2024 17:52
Acetone	U		1.6	2.0	µg/L	1	6/12/2024 17:52
Acrylonitrile	U		0.47	1.0	µg/L	1	6/12/2024 17:52
Benzene	U		0.32	0.50	µg/L	1	6/12/2024 17:52
Bromobenzene	U		0.18	0.50	µg/L	1	6/12/2024 17:52
Bromochloromethane	U		0.29	0.50	µg/L	1	6/12/2024 17:52
Bromodichloromethane	U		0.39	0.50	µg/L	1	6/12/2024 17:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-16
Collection Date: 5/30/2024 03:40 PM

Work Order: 24051860
Lab ID: 24051860-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		0.13	0.50	µg/L	1	6/12/2024 17:52
Bromomethane	U		1.0	2.0	µg/L	1	6/12/2024 17:52
Carbon disulfide	U		0.58	1.0	µg/L	1	6/12/2024 17:52
Carbon tetrachloride	U		0.43	0.50	µg/L	1	6/12/2024 17:52
Chlorobenzene	U		0.35	0.50	µg/L	1	6/12/2024 17:52
Chloroethane	U		0.66	1.0	µg/L	1	6/12/2024 17:52
Chloroform	U		0.15	0.50	µg/L	1	6/12/2024 17:52
Chloromethane	U		0.74	1.0	µg/L	1	6/12/2024 17:52
cis-1,2-Dichloroethene	U		0.14	0.50	µg/L	1	6/12/2024 17:52
cis-1,3-Dichloropropene	U		0.50	0.50	µg/L	1	6/12/2024 17:52
Cyclohexane	U		0.72	1.0	µg/L	1	6/12/2024 17:52
Dibromochloromethane	U		0.46	0.50	µg/L	1	6/12/2024 17:52
Dibromomethane	U		0.27	0.50	µg/L	1	6/12/2024 17:52
Dichlorodifluoromethane	U		0.77	1.0	µg/L	1	6/12/2024 17:52
Diethyl ether	U		0.22	1.0	µg/L	1	6/12/2024 17:52
Ethyl methacrylate	U		0.15	0.50	µg/L	1	6/12/2024 17:52
Ethylbenzene	U		0.22	0.50	µg/L	1	6/12/2024 17:52
Hexachlorobutadiene	U		1.4	2.0	µg/L	1	6/12/2024 17:52
Hexachloroethane	U		0.90	1.0	µg/L	1	6/12/2024 17:52
Isopropylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 17:52
m,p-Xylene	U		0.34	1.0	µg/L	1	6/12/2024 17:52
Methyl iodide	U		1.1	2.0	µg/L	1	6/12/2024 17:52
Methyl tert-butyl ether	U		0.38	0.50	µg/L	1	6/12/2024 17:52
Methylene chloride	U		0.38	0.50	µg/L	1	6/12/2024 17:52
Naphthalene	U		0.15	0.50	µg/L	1	6/12/2024 17:52
n-Butylbenzene	U		0.72	1.0	µg/L	1	6/12/2024 17:52
n-Propylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 17:52
o-Xylene	U		0.17	0.50	µg/L	1	6/12/2024 17:52
sec-Butylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 17:52
Styrene	U		0.33	0.50	µg/L	1	6/12/2024 17:52
tert-Butylbenzene	U		0.15	0.50	µg/L	1	6/12/2024 17:52
Tetrachloroethene	U		0.48	0.50	µg/L	1	6/12/2024 17:52
Tetrahydrofuran	U		0.26	1.0	µg/L	1	6/12/2024 17:52
Toluene	U		0.16	0.50	µg/L	1	6/12/2024 17:52
trans-1,2-Dichloroethene	U		0.34	0.50	µg/L	1	6/12/2024 17:52
trans-1,3-Dichloropropene	U		0.18	0.50	µg/L	1	6/12/2024 17:52
trans-1,4-Dichloro-2-butene	U		0.19	0.50	µg/L	1	6/12/2024 17:52
Trichloroethene	U		0.33	0.50	µg/L	1	6/12/2024 17:52
Trichlorofluoromethane	U		0.29	0.50	µg/L	1	6/12/2024 17:52
Vinyl chloride	U		0.27	0.50	µg/L	1	6/12/2024 17:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-16
Collection Date: 5/30/2024 03:40 PM

Work Order: 24051860
Lab ID: 24051860-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Xylenes (Total)	U		0.51	1.5	µg/L	1	6/12/2024 17:52
Trihalomethanes, Total	U		0.46	0.50	µg/L	1	6/12/2024 17:52
Surr: 1,2-Dichloroethane-d4	*98.4*			*70-130*	*%REC*	1	6/12/2024 17:52
Surr: 4-Bromofluorobenzene	*99.4*			*70-130*	*%REC*	1	6/12/2024 17:52
Surr: Dibromofluoromethane	*92.6*			*70-130*	*%REC*	1	6/12/2024 17:52
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	6/12/2024 17:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/30/2024

Work Order: 24051860
Lab ID: 24051860-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **E524.2**					Analyst: **BAM**
1,1,1,2-Tetrachloroethane	U		0.22	0.50	µg/L	1	6/12/2024 17:25
1,1,1-Trichloroethane	U		0.29	0.50	µg/L	1	6/12/2024 17:25
1,1,2,2-Tetrachloroethane	U		0.17	0.50	µg/L	1	6/12/2024 17:25
1,1,2-Trichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 17:25
1,1-Dichloroethane	U		0.10	0.50	µg/L	1	6/12/2024 17:25
1,1-Dichloroethene	U		0.49	0.50	µg/L	1	6/12/2024 17:25
1,1-Dichloropropene	U		0.43	0.50	µg/L	1	6/12/2024 17:25
1,2,3-Trichlorobenzene	U		0.65	1.0	µg/L	1	6/12/2024 17:25
1,2,3-Trichloropropane	U		0.34	0.50	µg/L	1	6/12/2024 17:25
1,2,3-Trimethylbenzene	U		0.35	0.50	µg/L	1	6/12/2024 17:25
1,2,4-Trichlorobenzene	U		0.70	1.0	µg/L	1	6/12/2024 17:25
1,2,4-Trimethylbenzene	U		0.40	0.50	µg/L	1	6/12/2024 17:25
1,2-Dibromo-3-chloropropane	U		0.48	0.50	µg/L	1	6/12/2024 17:25
1,2-Dibromoethane	U		0.16	0.50	µg/L	1	6/12/2024 17:25
1,2-Dichlorobenzene	U		0.45	0.50	µg/L	1	6/12/2024 17:25
1,2-Dichloroethane	U		0.46	0.50	µg/L	1	6/12/2024 17:25
1,2-Dichloropropane	U		0.44	0.50	µg/L	1	6/12/2024 17:25
1,3,5-Trimethylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 17:25
1,3-Dichlorobenzene	U		0.20	0.50	µg/L	1	6/12/2024 17:25
1,3-Dichloropropane	U		0.070	0.50	µg/L	1	6/12/2024 17:25
1,4-Dichlorobenzene	U		0.40	0.50	µg/L	1	6/12/2024 17:25
2,2-Dichloropropane	U		0.33	0.50	µg/L	1	6/12/2024 17:25
2-Butanone	U		0.68	1.0	µg/L	1	6/12/2024 17:25
2-Chlorotoluene	U		0.15	0.50	µg/L	1	6/12/2024 17:25
2-Hexanone	U		0.50	0.50	µg/L	1	6/12/2024 17:25
2-Methylnaphthalene	U		0.54	2.0	µg/L	1	6/12/2024 17:25
4-Chlorotoluene	U		0.38	0.50	µg/L	1	6/12/2024 17:25
4-Isopropyltoluene	U		0.43	0.50	µg/L	1	6/12/2024 17:25
4-Methyl-2-pentanone	U		0.82	1.0	µg/L	1	6/12/2024 17:25
Acetone	**2.5**		**1.6**	**2.0**	**µg/L**	1	6/12/2024 17:25
Acrylonitrile	U		0.47	1.0	µg/L	1	6/12/2024 17:25
Benzene	U		0.32	0.50	µg/L	1	6/12/2024 17:25
Bromobenzene	U		0.18	0.50	µg/L	1	6/12/2024 17:25
Bromochloromethane	U		0.29	0.50	µg/L	1	6/12/2024 17:25
Bromodichloromethane	U		0.39	0.50	µg/L	1	6/12/2024 17:25
Bromoform	U		0.13	0.50	µg/L	1	6/12/2024 17:25
Bromomethane	U		1.0	2.0	µg/L	1	6/12/2024 17:25
Carbon disulfide	U		0.58	1.0	µg/L	1	6/12/2024 17:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/30/2024

Work Order: 24051860
Lab ID: 24051860-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	U		0.43	0.50	µg/L	1	6/12/2024 17:25
Chlorobenzene	U		0.35	0.50	µg/L	1	6/12/2024 17:25
Chloroethane	U		0.66	1.0	µg/L	1	6/12/2024 17:25
Chloroform	U		0.15	0.50	µg/L	1	6/12/2024 17:25
Chloromethane	U		0.74	1.0	µg/L	1	6/12/2024 17:25
cis-1,2-Dichloroethene	U		0.14	0.50	µg/L	1	6/12/2024 17:25
cis-1,3-Dichloropropene	U		0.50	0.50	µg/L	1	6/12/2024 17:25
Cyclohexane	U		0.72	1.0	µg/L	1	6/12/2024 17:25
Dibromochloromethane	U		0.46	0.50	µg/L	1	6/12/2024 17:25
Dibromomethane	U		0.27	0.50	µg/L	1	6/12/2024 17:25
Dichlorodifluoromethane	U		0.77	1.0	µg/L	1	6/12/2024 17:25
Diethyl ether	U		0.22	1.0	µg/L	1	6/12/2024 17:25
Ethyl methacrylate	U		0.15	0.50	µg/L	1	6/12/2024 17:25
Ethylbenzene	U		0.22	0.50	µg/L	1	6/12/2024 17:25
Hexachlorobutadiene	U		1.4	2.0	µg/L	1	6/12/2024 17:25
Hexachloroethane	U		0.90	1.0	µg/L	1	6/12/2024 17:25
Isopropylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 17:25
m,p-Xylene	U		0.34	1.0	µg/L	1	6/12/2024 17:25
Methyl iodide	U		1.1	2.0	µg/L	1	6/12/2024 17:25
Methyl tert-butyl ether	U		0.38	0.50	µg/L	1	6/12/2024 17:25
Methylene chloride	U		0.38	0.50	µg/L	1	6/12/2024 17:25
Naphthalene	U		0.15	0.50	µg/L	1	6/12/2024 17:25
n-Butylbenzene	U		0.72	1.0	µg/L	1	6/12/2024 17:25
n-Propylbenzene	U		0.46	0.50	µg/L	1	6/12/2024 17:25
o-Xylene	U		0.17	0.50	µg/L	1	6/12/2024 17:25
sec-Butylbenzene	U		0.13	0.50	µg/L	1	6/12/2024 17:25
Styrene	U		0.33	0.50	µg/L	1	6/12/2024 17:25
tert-Butylbenzene	U		0.15	0.50	µg/L	1	6/12/2024 17:25
Tetrachloroethene	U		0.48	0.50	µg/L	1	6/12/2024 17:25
Tetrahydrofuran	U		0.26	1.0	µg/L	1	6/12/2024 17:25
Toluene	U		0.16	0.50	µg/L	1	6/12/2024 17:25
trans-1,2-Dichloroethene	U		0.34	0.50	µg/L	1	6/12/2024 17:25
trans-1,3-Dichloropropene	U		0.18	0.50	µg/L	1	6/12/2024 17:25
trans-1,4-Dichloro-2-butene	U		0.19	0.50	µg/L	1	6/12/2024 17:25
Trichloroethene	U		0.33	0.50	µg/L	1	6/12/2024 17:25
Trichlorofluoromethane	U		0.29	0.50	µg/L	1	6/12/2024 17:25
Vinyl chloride	U		0.27	0.50	µg/L	1	6/12/2024 17:25
Xylenes (Total)	U		0.51	1.5	µg/L	1	6/12/2024 17:25
Trihalomethanes, Total	U		0.46	0.50	µg/L	1	6/12/2024 17:25
Surr: 1,2-Dichloroethane-d4	*103*			*70-130*	*%REC*	1	6/12/2024 17:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *13-Jun-24*

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 5/30/2024

Work Order: 24051860
Lab ID: 24051860-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*99.7*			*70-130*	*%REC*	1	6/12/2024 17:25
Surr: Dibromofluoromethane	*101*			*70-130*	*%REC*	1	6/12/2024 17:25
Surr: Toluene-d8	*99.6*			*70-130*	*%REC*	1	6/12/2024 17:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 13-Jun-24

Client: Gannett Fleming, Inc.

Work Order: 24051860

Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

MBLK Sample ID: **10V-BLKW2-240612-R405758a** Units: **µg/L** Analysis Date: **6/12/2024 04:58 PM**

Client ID: Run ID: **VMS10_240612A** SeqNo: **10856514** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.22	0.50								
1,1,1-Trichloroethane	U	0.29	0.50								
1,1,2,2-Tetrachloroethane	U	0.17	0.50								
1,1,2-Trichloroethane	U	0.46	0.50								
1,1-Dichloroethane	U	0.1	0.50								
1,1-Dichloroethene	U	0.49	0.50								
1,1-Dichloropropene	U	0.43	0.50								
1,2,3-Trichlorobenzene	U	0.65	1.0								
1,2,3-Trichloropropane	U	0.34	0.50								
1,2,3-Trimethylbenzene	U	0.35	0.50								
1,2,4-Trichlorobenzene	U	0.7	1.0								
1,2,4-Trimethylbenzene	U	0.4	0.50								
1,2-Dibromo-3-chloropropane	U	0.48	0.50								
1,2-Dibromoethane	U	0.16	0.50								
1,2-Dichlorobenzene	U	0.45	0.50								
1,2-Dichloroethane	U	0.46	0.50								
1,2-Dichloropropane	U	0.44	0.50								
1,3,5-Trimethylbenzene	U	0.46	0.50								
1,3-Dichlorobenzene	U	0.2	0.50								
1,3-Dichloropropane	U	0.07	0.50								
1,4-Dichlorobenzene	U	0.4	0.50								
2,2-Dichloropropane	U	0.33	0.50								
2-Butanone	U	0.68	1.0								
2-Chlorotoluene	U	0.15	0.50								
2-Hexanone	U	0.5	0.50								
2-Methylnaphthalene	U	0.54	2.0								
4-Chlorotoluene	U	0.38	0.50								
4-Isopropyltoluene	U	0.43	0.50								
4-Methyl-2-pentanone	U	0.82	1.0								
Acetone	U	1.6	2.0								
Acrylonitrile	U	0.47	1.0								
Benzene	U	0.32	0.50								
Bromobenzene	U	0.18	0.50								
Bromochloromethane	U	0.29	0.50								
Bromodichloromethane	U	0.39	0.50								
Bromoform	U	0.13	0.50								
Bromomethane	U	1	2.0								
Carbon disulfide	U	0.58	1.0								
Carbon tetrachloride	U	0.43	0.50								
Chlorobenzene	U	0.35	0.50								
Chloroethane	U	0.66	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

Chloroform	U	0.15	0.50					
Chloromethane	U	0.74	1.0					
cis-1,2-Dichloroethene	U	0.14	0.50					
cis-1,3-Dichloropropene	U	0.5	0.50					
Cyclohexane	U	0.72	1.0					
Dibromochloromethane	U	0.46	0.50					
Dibromomethane	U	0.27	0.50					
Dichlorodifluoromethane	U	0.77	1.0					
Diethyl ether	U	0.22	1.0					
Ethyl methacrylate	U	0.15	0.50					
Ethylbenzene	U	0.22	0.50					
Hexachlorobutadiene	U	1.4	2.0					
Hexachloroethane	U	0.9	1.0					
Isopropylbenzene	U	0.13	0.50					
m,p-Xylene	U	0.34	1.0					
Methyl iodide	U	1.1	2.0					
Methyl tert-butyl ether	U	0.38	0.50					
Methylene chloride	U	0.38	0.50					
Naphthalene	U	0.15	0.50					
n-Butylbenzene	U	0.72	1.0					
n-Propylbenzene	U	0.46	0.50					
o-Xylene	U	0.17	0.50					
sec-Butylbenzene	U	0.13	0.50					
Styrene	U	0.33	0.50					
tert-Butylbenzene	U	0.15	0.50					
Tetrachloroethene	U	0.48	0.50					
Tetrahydrofuran	U	0.26	1.0					
Toluene	U	0.16	0.50					
trans-1,2-Dichloroethene	U	0.34	0.50					
trans-1,3-Dichloropropene	U	0.18	0.50					
trans-1,4-Dichloro-2-butene	U	0.19	0.50					
Trichloroethene	U	0.33	0.50					
Trichlorofluoromethane	U	0.29	0.50					
Vinyl chloride	U	0.27	0.50					
Xylenes (Total)	U	0.51	1.5					
Trihalomethanes, Total	U	0.46	0.50					
Surr: 1,2-Dichloroethane-d4	*19.96*	0	0	*20*	0	*99.8*	*70-130*	0
Surr: 4-Bromofluorobenzene	*19.64*	0	0	*20*	0	*98.2*	*70-130*	0
Surr: Dibromofluoromethane	*19.69*	0	0	*20*	0	*98.4*	*70-130*	0
Surr: Toluene-d8	*20.17*	0	0	*20*	0	*101*	*70-130*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051860
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

LCS Sample ID: **10V-LCSW1-240612-R405758a** Units: **µg/L** Analysis Date: **6/12/2024 04:00 PM**

Client ID: Run ID: **VMS10_240612A** SeqNo: **10856513** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	5.54	0.22	0.50	5	0	111	70-130	0			
1,1,1-Trichloroethane	5.35	0.29	0.50	5	0	107	70-130	0			
1,1,2,2-Tetrachloroethane	5.35	0.17	0.50	5	0	107	70-130	0			
1,1,2-Trichloroethane	5.53	0.46	0.50	5	0	111	70-130	0			
1,1-Dichloroethane	5.78	0.1	0.50	5	0	116	70-130	0			
1,1-Dichloroethene	6.02	0.49	0.50	5	0	120	70-130	0			
1,1-Dichloropropene	5.23	0.43	0.50	5	0	105	70-130	0			
1,2,3-Trichlorobenzene	5.75	0.65	1.0	5	0	115	70-130	0			
1,2,3-Trichloropropane	4.8	0.34	0.50	5	0	96	70-130	0			
1,2,3-Trimethylbenzene	5.95	0.35	0.50	5	0	119	70-130	0			
1,2,4-Trichlorobenzene	6.03	0.7	1.0	5	0	121	70-130	0			
1,2,4-Trimethylbenzene	5.82	0.4	0.50	5	0	116	70-130	0			
1,2-Dibromo-3-chloropropane	5.01	0.48	0.50	5	0	100	70-130	0			
1,2-Dibromoethane	5.48	0.16	0.50	5	0	110	70-130	0			
1,2-Dichlorobenzene	5.94	0.45	0.50	5	0	119	70-130	0			
1,2-Dichloroethane	5.34	0.46	0.50	5	0	107	70-130	0			
1,2-Dichloropropane	6.15	0.44	0.50	5	0	123	70-130	0			
1,3,5-Trimethylbenzene	5.9	0.46	0.50	5	0	118	70-130	0			
1,3-Dichlorobenzene	6.03	0.2	0.50	5	0	121	70-130	0			
1,3-Dichloropropane	5.62	0.07	0.50	5	0	112	70-130	0			
1,4-Dichlorobenzene	6.29	0.4	0.50	5	0	126	70-130	0			
2,2-Dichloropropane	5.96	0.33	0.50	5	0	119	70-130	0			
2-Butanone	5.5	0.68	1.0	5	0	110	70-130	0			
2-Chlorotoluene	6.07	0.15	0.50	5	0	121	70-130	0			
2-Hexanone	5.61	0.5	0.50	5	0	112	70-130	0			
4-Chlorotoluene	5.92	0.38	0.50	5	0	118	70-130	0			
Acetone	5.74	1.6	2.0	5	0	115	70-130	0			
Acrylonitrile	4.76	0.47	1.0	5	0	95.2	70-130	0			
Benzene	6.41	0.32	0.50	5	0	128	70-130	0			
Bromobenzene	5.84	0.18	0.50	5	0	117	70-130	0			
Bromochloromethane	6.09	0.29	0.50	5	0	122	70-130	0			
Bromodichloromethane	5.63	0.39	0.50	5	0	113	70-130	0			
Bromoform	5.12	0.13	0.50	5	0	102	70-130	0			
Bromomethane	7.48	1	2.0	5	0	150	70-130	0			S
Carbon disulfide	5.65	0.58	1.0	5	0	113	70-130	0			
Carbon tetrachloride	5.25	0.43	0.50	5	0	105	70-130	0			
Chlorobenzene	6.16	0.35	0.50	5	0	123	70-130	0			
Chloroethane	5.92	0.66	1.0	5	0	118	70-130	0			
Chloroform	5.73	0.15	0.50	5	0	115	70-130	0			
Chloromethane	5.53	0.74	1.0	5	0	111	70-130	0			
cis-1,2-Dichloroethene	6.28	0.14	0.50	5	0	126	70-130	0			
cis-1,3-Dichloropropene	5.29	0.5	0.50	5	0	106	70-130	0			
Dibromochloromethane	5.26	0.46	0.50	5	0	105	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051860
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

Dibromomethane	5.32	0.27	0.50	5	0	106	70-130	0	
Dichlorodifluoromethane	2.95	0.77	1.0	5	0	59	70-130	0	S
Ethylbenzene	6.02	0.22	0.50	5	0	120	70-130	0	
Hexachlorobutadiene	6.77	1.4	2.0	5	0	135	70-130	0	S
Hexachloroethane	4.73	0.9	1.0	5	0	94.6	70-130	0	
Isopropylbenzene	6.03	0.13	0.50	5	0	121	70-130	0	
m,p-Xylene	11.89	0.34	1.0	10	0	119	70-130	0	
Methyl iodide	7.53	1.1	2.0	5	0	151	70-130	0	S
Methyl tert-butyl ether	5.65	0.38	0.50	5	0	113	70-130	0	
Methylene chloride	5.88	0.38	0.50	5	0	118	70-130	0	
Naphthalene	5.21	0.15	0.50	5	0	104	70-130	0	
n-Butylbenzene	5.34	0.72	1.0	5	0	107	70-130	0	
n-Propylbenzene	5.83	0.46	0.50	5	0	117	70-130	0	
o-Xylene	6.01	0.17	0.50	5	0	120	70-130	0	
sec-Butylbenzene	5.6	0.13	0.50	5	0	112	70-130	0	
Styrene	6.22	0.33	0.50	5	0	124	70-130	0	
tert-Butylbenzene	5.71	0.15	0.50	5	0	114	70-130	0	
Tetrachloroethene	5.74	0.48	0.50	5	0	115	70-130	0	
Toluene	6.58	0.16	0.50	5	0	132	70-130	0	S
trans-1,2-Dichloroethene	6.17	0.34	0.50	5	0	123	70-130	0	
trans-1,3-Dichloropropene	5.16	0.18	0.50	5	0	103	70-130	0	
Trichloroethene	5.93	0.33	0.50	5	0	119	70-130	0	
Trichlorofluoromethane	4.32	0.29	0.50	5	0	86.4	70-130	0	
Vinyl chloride	4.89	0.27	0.50	5	0	97.8	70-130	0	
Xylenes (Total)	17.9	0.51	1.5	15	0	119	70-130	0	
Surr: 1,2-Dichloroethane-d4	*19.71*	0	0	*20*	0	*98.6*	*70-130*	0	
Surr: 4-Bromofluorobenzene	*19.92*	0	0	*20*	0	*99.6*	*70-130*	0	
Surr: Dibromofluoromethane	*19.76*	0	0	*20*	0	*98.8*	*70-130*	0	
Surr: Toluene-d8	*19.53*	0	0	*20*	0	*97.6*	*70-130*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051860
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

MS Sample ID: **HN2403017-001 MS** Units: **µg/L** Analysis Date: **6/12/2024 09:31 PM**

Client ID: Run ID: **VMS10_240612A** SeqNo: **10856521** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	5.27	0.22	0.50	5	0	105	70-130	0			
1,1,1-Trichloroethane	4.57	0.29	0.50	5	0	91.4	70-130	0			
1,1,2,2-Tetrachloroethane	5.42	0.17	0.50	5	0	108	70-130	0			
1,1,2-Trichloroethane	5.5	0.46	0.50	5	0	110	70-130	0			
1,1-Dichloroethane	3.77	0.1	0.50	5	0	75.4	70-130	0			
1,1-Dichloroethene	7.56	0.49	0.50	5	0	151	70-130	0			S
1,1-Dichloropropene	5.09	0.43	0.50	5	0	102	70-130	0			
1,2,3-Trichlorobenzene	5.2	0.65	1.0	5	0	104	70-130	0			
1,2,3-Trichloropropane	5.82	0.34	0.50	5	0	116	70-130	0			
1,2,3-Trimethylbenzene	0.84	0.35	0.50	5	0	16.8	70-130	0			S
1,2,4-Trichlorobenzene	4.68	0.7	1.0	5	0	93.6	70-130	0			
1,2,4-Trimethylbenzene	0.66	0.4	0.50	5	0	13.2	70-130	0			S
1,2-Dibromo-3-chloropropane	4.7	0.48	0.50	5	0	94	70-130	0			
1,2-Dibromoethane	5.83	0.16	0.50	5	0	117	70-130	0			
1,2-Dichlorobenzene	5.45	0.45	0.50	5	0	109	70-130	0			
1,2-Dichloroethane	5.16	0.46	0.50	5	0	103	70-130	0			
1,2-Dichloropropane	5.58	0.44	0.50	5	0	112	70-130	0			
1,3,5-Trimethylbenzene	U	0.46	0.50	5	0	0	70-130	0			S
1,3-Dichlorobenzene	5.26	0.2	0.50	5	0	105	70-130	0			
1,3-Dichloropropane	5.54	0.07	0.50	5	0	111	70-130	0			
1,4-Dichlorobenzene	5.26	0.4	0.50	5	0	105	70-130	0			
2,2-Dichloropropane	0.85	0.33	0.50	5	0	17	70-130	0			S
2-Butanone	4.78	0.68	1.0	5	0	95.6	70-130	0			
2-Chlorotoluene	5.55	0.15	0.50	5	0	111	70-130	0			
2-Hexanone	6.05	0.5	0.50	5	0	121	70-130	0			
4-Chlorotoluene	4.74	0.38	0.50	5	0	94.8	70-130	0			
Acetone	9.19	1.6	2.0	5	0	184	70-130	0			S
Acrylonitrile	4.69	0.47	1.0	5	0	93.8	70-130	0			
Benzene	5.74	0.32	0.50	5	0	115	70-130	0			
Bromobenzene	5.31	0.18	0.50	5	0	106	70-130	0			
Bromochloromethane	4.69	0.29	0.50	5	0	93.8	70-130	0			
Bromodichloromethane	16.54	0.39	0.50	5	0	331	70-130	0			S
Bromoform	5.24	0.13	0.50	5	0	105	70-130	0			
Bromomethane	1.22	1	2.0	5	0	24.4	70-130	0			JS
Carbon disulfide	6.19	0.58	1.0	5	0	124	70-130	0			
Carbon tetrachloride	4.07	0.43	0.50	5	0	81.4	70-130	0			
Chlorobenzene	5.68	0.35	0.50	5	0	114	70-130	0			
Chloroethane	4.57	0.66	1.0	5	0	91.4	70-130	0			
Chloroform	35.41	0.15	0.50	5	0	708	70-130	0			S
Chloromethane	5.44	0.74	1.0	5	0	109	70-130	0			
cis-1,2-Dichloroethene	5.25	0.14	0.50	5	0	105	70-130	0			
cis-1,3-Dichloropropene	4.26	0.5	0.50	5	0	85.2	70-130	0			
Dibromochloromethane	8.31	0.46	0.50	5	0	166	70-130	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

Dibromomethane	5.52	0.27	0.50	5	0	110	70-130	0	
Dichlorodifluoromethane	4.72	0.77	1.0	5	0	94.4	70-130	0	
Ethylbenzene	5.47	0.22	0.50	5	0	109	70-130	0	
Hexachlorobutadiene	5.36	1.4	2.0	5	0	107	70-130	0	
Hexachloroethane	3.76	0.9	1.0	5	0	75.2	70-130	0	
Isopropylbenzene	5.65	0.13	0.50	5	0	113	70-130	0	
m,p-Xylene	7.35	0.34	1.0	10	0	73.5	70-130	0	
Methyl iodide	U	1.1	2.0	5	0	0	70-130	0	S
Methyl tert-butyl ether	3.55	0.38	0.50	5	0	71	70-130	0	
Methylene chloride	5.88	0.38	0.50	5	0	118	70-130	0	
Naphthalene	4.18	0.15	0.50	5	0	83.6	70-130	0	
n-Butylbenzene	4.89	0.72	1.0	5	0	97.8	70-130	0	
n-Propylbenzene	5.24	0.46	0.50	5	0	105	70-130	0	
o-Xylene	5.26	0.17	0.50	5	0	105	70-130	0	
sec-Butylbenzene	5.4	0.13	0.50	5	0	108	70-130	0	
Styrene	U	0.33	0.50	5	0	0	70-130	0	S
tert-Butylbenzene	5.08	0.15	0.50	5	0	102	70-130	0	
Tetrachloroethene	6.1	0.48	0.50	5	0	122	70-130	0	
Toluene	5.86	0.16	0.50	5	0	117	70-130	0	
trans-1,2-Dichloroethene	5.85	0.34	0.50	5	0	117	70-130	0	
trans-1,3-Dichloropropene	3.97	0.18	0.50	5	0	79.4	70-130	0	
Trichloroethene	5.95	0.33	0.50	5	0	119	70-130	0	
Trichlorofluoromethane	5.04	0.29	0.50	5	0	101	70-130	0	
Vinyl chloride	5.99	0.27	0.50	5	0	120	70-130	0	
Xylenes (Total)	12.61	0.51	1.5	15	0	84.1	70-130	0	
Surr: 1,2-Dichloroethane-d4	*20.29*	0	0	*20*	0	*101*	*70-130*	0	
Surr: 4-Bromofluorobenzene	*19.53*	0	0	*20*	0	*97.6*	*70-130*	0	
Surr: Dibromofluoromethane	*19.3*	0	0	*20*	0	*96.5*	*70-130*	0	
Surr: Toluene-d8	*20.16*	0	0	*20*	0	*101*	*70-130*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051860
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a** Instrument ID **VMS10** Method: **E524.2**

DUP Sample ID: **HN2403016-001 DUP** Units: **µg/L** Analysis Date: **6/12/2024 09:04 PM**

Client ID: Run ID: **VMS10_240612A** SeqNo: **10856520** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.22	0.50	0	0	0		0	0	30	
1,1,1-Trichloroethane	U	0.29	0.50	0	0	0		0	0	30	
1,1,2,2-Tetrachloroethane	U	0.17	0.50	0	0	0		0	0	30	
1,1,2-Trichloroethane	U	0.46	0.50	0	0	0		0	0	30	
1,1-Dichloroethane	U	0.1	0.50	0	0	0		0	0	30	
1,1-Dichloroethene	U	0.49	0.50	0	0	0		0	0	30	
1,1-Dichloropropene	U	0.43	0.50	0	0	0		0	0	30	
1,2,3-Trichlorobenzene	U	0.65	1.0	0	0	0		0	0	30	
1,2,3-Trichloropropane	U	0.34	0.50	0	0	0		0	0	30	
1,2,3-Trimethylbenzene	U	0.35	0.50	0	0	0		0	0	30	
1,2,4-Trichlorobenzene	U	0.7	1.0	0	0	0		0	0	30	
1,2,4-Trimethylbenzene	U	0.4	0.50	0	0	0		0	0	30	
1,2-Dibromo-3-chloropropane	U	0.48	0.50	0	0	0		0	0	30	
1,2-Dibromoethane	U	0.16	0.50	0	0	0		0	0	30	
1,2-Dichlorobenzene	U	0.45	0.50	0	0	0		0	0	30	
1,2-Dichloroethane	U	0.46	0.50	0	0	0		0	0	30	
1,2-Dichloropropane	U	0.44	0.50	0	0	0		0	0	30	
1,3,5-Trimethylbenzene	U	0.46	0.50	0	0	0		0	0	30	
1,3-Dichlorobenzene	U	0.2	0.50	0	0	0		0	0	30	
1,3-Dichloropropane	U	0.07	0.50	0	0	0		0	0	30	
1,4-Dichlorobenzene	U	0.4	0.50	0	0	0		0	0	30	
2,2-Dichloropropane	U	0.33	0.50	0	0	0		0	0	30	
2-Butanone	U	0.68	1.0	0	0	0		0	0	30	
2-Chlorotoluene	U	0.15	0.50	0	0	0		0	0	30	
2-Hexanone	U	0.5	0.50	0	0	0		0	0	30	
2-Methylnaphthalene	U	0.54	2.0	0	0	0		0	0	30	
4-Chlorotoluene	U	0.38	0.50	0	0	0		0	0	30	
4-Isopropyltoluene	U	0.43	0.50	0	0	0		0	0	30	
4-Methyl-2-pentanone	U	0.82	1.0	0	0	0		0	0	30	
Acetone	U	1.6	2.0	0	0	0		0	0	30	
Acrylonitrile	U	0.47	1.0	0	0	0		0	0	30	
Benzene	U	0.32	0.50	0	0	0		0	0	30	
Bromobenzene	U	0.18	0.50	0	0	0		0	0	30	
Bromochloromethane	U	0.29	0.50	0	0	0		0	0	30	
Bromodichloromethane	10.93	0.39	0.50	0	0	0		9.91	9.79	30	
Bromoform	U	0.13	0.50	0	0	0		0	0	30	
Bromomethane	U	1	2.0	0	0	0		0	0	30	
Carbon disulfide	U	0.58	1.0	0	0	0		0	0	30	
Carbon tetrachloride	U	0.43	0.50	0	0	0		0	0	30	
Chlorobenzene	U	0.35	0.50	0	0	0		0	0	30	
Chloroethane	U	0.66	1.0	0	0	0		0	0	30	
Chloroform	31.54	0.15	0.50	0	0	0		30.86	2.18	30	
Chloromethane	U	0.74	1.0	0	0	0		0	0	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051860
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405758a**	Instrument ID **VMS10**			Method: **E524.2**						
cis-1,2-Dichloroethene	U	0.14	0.50	0	0	0		0	0	30
cis-1,3-Dichloropropene	U	0.5	0.50	0	0	0		0	0	30
Cyclohexane	U	0.72	1.0	0	0	0		0	0	30
Dibromochloromethane	2.68	0.46	0.50	0	0	0		2.39	11.4	30
Dibromomethane	U	0.27	0.50	0	0	0		0	0	30
Dichlorodifluoromethane	U	0.77	1.0	0	0	0		0	0	30
Diethyl ether	U	0.22	1.0	0	0	0		0	0	30
Ethyl methacrylate	U	0.15	0.50	0	0	0		0	0	30
Ethylbenzene	U	0.22	0.50	0	0	0		0	0	30
Hexachlorobutadiene	U	1.4	2.0	0	0	0		0	0	30
Hexachloroethane	U	0.9	1.0	0	0	0		0	0	30
Isopropylbenzene	U	0.13	0.50	0	0	0		0	0	30
m,p-Xylene	U	0.34	1.0	0	0	0		0	0	30
Methyl iodide	U	1.1	2.0	0	0	0		0	0	30
Methyl tert-butyl ether	U	0.38	0.50	0	0	0		0	0	30
Methylene chloride	U	0.38	0.50	0	0	0		0	0	30
Naphthalene	U	0.15	0.50	0	0	0		0	0	30
n-Butylbenzene	U	0.72	1.0	0	0	0		0	0	30
n-Propylbenzene	U	0.46	0.50	0	0	0		0	0	30
o-Xylene	U	0.17	0.50	0	0	0		0	0	30
sec-Butylbenzene	U	0.13	0.50	0	0	0		0	0	30
Styrene	U	0.33	0.50	0	0	0		0	0	30
tert-Butylbenzene	U	0.15	0.50	0	0	0		0	0	30
Tetrachloroethene	U	0.48	0.50	0	0	0		0	0	30
Tetrahydrofuran	U	0.26	1.0	0	0	0		0	0	30
Toluene	U	0.16	0.50	0	0	0		0	0	30
trans-1,2-Dichloroethene	U	0.34	0.50	0	0	0		0	0	30
trans-1,3-Dichloropropene	U	0.18	0.50	0	0	0		0	0	30
trans-1,4-Dichloro-2-butene	U	0.19	0.50	0	0	0		0	0	30
Trichloroethene	U	0.33	0.50	0	0	0		0	0	30
Trichlorofluoromethane	U	0.29	0.50	0	0	0		0	0	30
Vinyl chloride	U	0.27	0.50	0	0	0		0	0	30
Xylenes (Total)	U	0.51	1.5	0	0	0		0	0	30
Trihalomethanes, Total	45.15	0.46	0.50	0	0	0		43.16	4.51	
Surr: 1,2-Dichloroethane-d4	*20.24*	0	0	*20*	0	*101*	*70-130*	19.51	*3.67*	*30*
Surr: 4-Bromofluorobenzene	*19.48*	0	0	*20*	0	*97.4*	*70-130*	20.4	*4.61*	*30*
Surr: Dibromofluoromethane	*17.72*	0	0	*20*	0	*88.6*	*70-130*	18.08	*2.01*	*30*
Surr: Toluene-d8	*19.67*	0	0	*20*	0	*98.4*	*70-130*	19.82	*0.76*	*30*

The following samples were analyzed in this batch: 24051860-01A 24051860-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 24051860
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R405804a** Instrument ID **VMS7** Method: **SW8260D**

MBLK Sample ID: **7V-BLKW2-240612-R405804a** Units: **µg/L** Analysis Date: **6/13/2024 04:55 AM**
Client ID: Run ID: **VMS7_240612B** SeqNo: **10858615** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	U	0.44	1.0								
Surr: Toluene-d8	*4.63*	0	0	*5*	0	*92.6*	*74-124*	0			

LCS Sample ID: **7V-LCSW2-240612-R405804a** Units: **µg/L** Analysis Date: **6/13/2024 04:03 AM**
Client ID: Run ID: **VMS7_240612B** SeqNo: **10858613** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	41.37	0.44	1.0	40	0	103	70-130	0			
Surr: Toluene-d8	*5.4*	0	0	*5*	0	*108*	*74-124*	0			

DUP Sample ID: **24060540-14A DUP** Units: **µg/L** Analysis Date: **6/13/2024 02:44 PM**
Client ID: Run ID: **VMS7_240612B** SeqNo: **10858637** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	U	0.44	1.0	0	0	0		0	0	30	
Surr: Toluene-d8	*4.72*	0	0	*5*	0	*94.4*	*74-124*	4.71	*0.212*	*30*	

The following samples were analyzed in this batch: 24051860-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Chain of Custody Form

Page 1 of 1

24051860

GANNETTFLEMING - WI: Gannett Fleming, Inc.
Project: WRR (55929.005)

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	55929.005	Project Name	WRR	A	VOC (524.2)
Quote #	ALS 2024 RATES	Project Number	55929.005	B	1,4-DIOXANE
Company Name	GANNETT FLEMING	Bill To Company		C	
Send Report To	ANTHONY MILLER	Invoice Attn.	SAME AS	D	
Address	8040 EXCELSIOR DR SUITE #303	Address		E	
			REPORT	F	
City/State/Zip	MADISON, WI 53717	City/State/Zip		G	
Phone	608-354-7730	Phone		H	
Fax	—	Fax		I	
e-Mail Address	awmiller@gfnet.com			J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
	PW-16	5/30/24	15:40	W	1,8	6	✓	✓									
	TRIP BLANK	—	—	W	1,8		✓										

Sampler(s): Please Print & Sign: TONY MILLER

Shipment Method: FED EX

Turnaround Time: (Business Days): ☒ 10 BD ☐ 5 BD ☐ 3 BD ☐ 2 BD ☐ 1 BD ☑ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:
	5/30/24	17:30	FedEx			
Relinquished by: FedEx	5/31/24	1000	Received by (Laboratory):	5/31/24	1000	
Logged by (Laboratory): KL	5/31/24	1355	Checked by (Laboratory):			

Cooler Temp °C	pH Verified	QC Package: (Check Box Below)
3.2°C IR3		☐ Level II: Standard QC ☐ Level III: Raw Data ☐ TRRP LRC ☐ TRRP Level IV ☐ Level IV: SW846 Methods/CLP like ☐ Other:

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035A

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **GANNETTFLEMING - WI** Date/Time Received: **31-May-24 10:00**

Work Order: **24051860** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 31-May-24 (Date) Reviewed by: Jodi Blouw (eSignature) 03-Jun-24 (Date)

Matrices: Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2/4.2 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/31/2024 1:55:47 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: