



Gannett Fleming

Excellence Delivered *As Promised*

October 1, 2020

File #55929.005

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

Re: Laboratory Results for Water Sample Collected from PW-11 in September 2020

Dear Mr. Hauge:

On September 21, 2020, 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 was sent to ALS Laboratory in Holland, Michigan, for analysis of 65 individual volatile organic compounds (VOCs). No VOCs were detected in the water sample collected from your home in September. Enclosed is a copy of the laboratory report for the water sample that was collected from your home (PW-11) in September 2020.

A copy of this letter and the September 2020 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 time convenient for you for us to collect the next sample. In the meantime, if you have any questions, 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/jec/Enc.

cc: Matthew Vitale, Doug Coenen (WDNR)

C:\Users\jconway\OneDrive - Gannett Fleming Inc\Desktop\55929-WRR-S\PW-11_5699_SLCR.docx

Gannett Fleming, Inc.

8040 Excelsior Drive, Suite 303, Madison, WI 53717

t 608.327.5050

www.gannettfleming.com



30-Sep-2020

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

Re: **WRR (55929.005)**

Work Order: **20091880**

Dear Anthony,

ALS Environmental received 2 samples on 22-Sep-2020 10:30 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 18.

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,

A handwritten signature in black ink that reads "Ehrland Bosworth".

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 20091880

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20091880-01	PW-11	Groundwater		9/21/2020 16:45	9/22/2020 10:30	<input type="checkbox"/>
20091880-02	Trip Blank	Water		9/21/2020	9/22/2020 10:30	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: 20091880

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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
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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 20091880

Case Narrative

Samples for the above noted Work Order were received on 09/22/2020. 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:

No deviations or anomalies were noted.

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-11
Collection Date: 9/21/2020 04:45 PM

Work Order: 20091880
Lab ID: 20091880-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: SJB
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	9/29/2020 19:47
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 19:47
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	9/29/2020 19:47
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 19:47
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	9/29/2020 19:47
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	9/29/2020 19:47
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	9/29/2020 19:47
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	9/29/2020 19:47
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 19:47
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	9/29/2020 19:47
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	9/29/2020 19:47
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	9/29/2020 19:47
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	9/29/2020 19:47
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	9/29/2020 19:47
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	9/29/2020 19:47
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	9/29/2020 19:47
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	9/29/2020 19:47
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	9/29/2020 19:47
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 19:47
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	9/29/2020 19:47
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	9/29/2020 19:47
2-Butanone	U		0.52	1.7	µg/L	1	9/29/2020 19:47
2-Chlorotoluene	U		0.36	1.2	µg/L	1	9/29/2020 19:47
2-Propanol	U		33	110	µg/L	1	9/29/2020 19:47
4-Chlorotoluene	U		0.31	1.0	µg/L	1	9/29/2020 19:47
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	9/29/2020 19:47
Acetone	U		6.2	21	µg/L	1	9/29/2020 19:47
Benzene	U		0.46	1.5	µg/L	1	9/29/2020 19:47
Bromobenzene	U		0.38	1.3	µg/L	1	9/29/2020 19:47
Bromochloromethane	U		0.45	1.5	µg/L	1	9/29/2020 19:47
Bromodichloromethane	U		0.49	1.6	µg/L	1	9/29/2020 19:47
Bromoform	U		0.56	1.9	µg/L	1	9/29/2020 19:47
Bromomethane	U		0.90	3.0	µg/L	1	9/29/2020 19:47
Carbon tetrachloride	U		0.40	1.4	µg/L	1	9/29/2020 19:47
Chlorobenzene	U		0.40	1.3	µg/L	1	9/29/2020 19:47
Chloroethane	U		0.68	2.3	µg/L	1	9/29/2020 19:47
Chloroform	U		0.46	1.5	µg/L	1	9/29/2020 19:47
Chloromethane	U		0.83	2.8	µg/L	1	9/29/2020 19:47

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

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-11
Collection Date: 9/21/2020 04:45 PM

Work Order: 20091880
Lab ID: 20091880-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	9/29/2020 19:47
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	9/29/2020 19:47
Dibromochloromethane	U		0.40	1.3	µg/L	1	9/29/2020 19:47
Dibromomethane	U		0.65	2.2	µg/L	1	9/29/2020 19:47
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	9/29/2020 19:47
Diisopropyl ether	U		0.41	1.4	µg/L	1	9/29/2020 19:47
Ethylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 19:47
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	9/29/2020 19:47
Isopropylbenzene	U		0.35	1.2	µg/L	1	9/29/2020 19:47
m,p-Xylene	U		0.81	2.7	µg/L	1	9/29/2020 19:47
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	9/29/2020 19:47
Methylene chloride	U		0.86	2.9	µg/L	1	9/29/2020 19:47
Naphthalene	U		0.77	2.6	µg/L	1	9/29/2020 19:47
n-Butylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 19:47
n-Propylbenzene	U		0.48	1.6	µg/L	1	9/29/2020 19:47
o-Xylene	U		0.31	1.0	µg/L	1	9/29/2020 19:47
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	9/29/2020 19:47
sec-Butylbenzene	U		0.30	1.0	µg/L	1	9/29/2020 19:47
Styrene	U		0.33	1.1	µg/L	1	9/29/2020 19:47
tert-Butylbenzene	U		0.39	1.3	µg/L	1	9/29/2020 19:47
Tetrachloroethene	U		0.39	1.3	µg/L	1	9/29/2020 19:47
Toluene	U		0.45	1.5	µg/L	1	9/29/2020 19:47
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	9/29/2020 19:47
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	9/29/2020 19:47
Trichloroethene	U		0.43	1.4	µg/L	1	9/29/2020 19:47
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	9/29/2020 19:47
Vinyl chloride	U		0.53	1.8	µg/L	1	9/29/2020 19:47
Xylenes, Total	U		0.81	4.4	µg/L	1	9/29/2020 19:47
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	9/29/2020 19:47
Surr: 4-Bromofluorobenzene	95.0			80-110	%REC	1	9/29/2020 19:47
Surr: Dibromofluoromethane	99.2			85-115	%REC	1	9/29/2020 19:47
Surr: Toluene-d8	99.0			85-110	%REC	1	9/29/2020 19:47

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

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 9/21/2020

Work Order: 20091880
Lab ID: 20091880-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: SJB
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	9/29/2020 19:07
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 19:07
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 19:07
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	9/29/2020 19:07
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	9/29/2020 19:07
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	9/29/2020 19:07
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	9/29/2020 19:07
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	9/29/2020 19:07
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	9/29/2020 19:07
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	9/29/2020 19:07
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	9/29/2020 19:07
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	9/29/2020 19:07
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	9/29/2020 19:07
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	9/29/2020 19:07
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	9/29/2020 19:07
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	9/29/2020 19:07
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	9/29/2020 19:07
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	9/29/2020 19:07
2-Butanone	U		0.52	1.7	µg/L	1	9/29/2020 19:07
2-Chlorotoluene	U		0.36	1.2	µg/L	1	9/29/2020 19:07
2-Propanol	U		33	110	µg/L	1	9/29/2020 19:07
4-Chlorotoluene	U		0.31	1.0	µg/L	1	9/29/2020 19:07
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	9/29/2020 19:07
Acetone	U		6.2	21	µg/L	1	9/29/2020 19:07
Benzene	U		0.46	1.5	µg/L	1	9/29/2020 19:07
Bromobenzene	U		0.38	1.3	µg/L	1	9/29/2020 19:07
Bromochloromethane	U		0.45	1.5	µg/L	1	9/29/2020 19:07
Bromodichloromethane	U		0.49	1.6	µg/L	1	9/29/2020 19:07
Bromoform	U		0.56	1.9	µg/L	1	9/29/2020 19:07
Bromomethane	U		0.90	3.0	µg/L	1	9/29/2020 19:07
Carbon tetrachloride	U		0.40	1.4	µg/L	1	9/29/2020 19:07
Chlorobenzene	U		0.40	1.3	µg/L	1	9/29/2020 19:07
Chloroethane	U		0.68	2.3	µg/L	1	9/29/2020 19:07
Chloroform	U		0.46	1.5	µg/L	1	9/29/2020 19:07
Chloromethane	U		0.83	2.8	µg/L	1	9/29/2020 19:07

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

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 9/21/2020

Work Order: 20091880
Lab ID: 20091880-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	9/29/2020 19:07
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	9/29/2020 19:07
Dibromochloromethane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
Dibromomethane	U		0.65	2.2	µg/L	1	9/29/2020 19:07
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	9/29/2020 19:07
Diisopropyl ether	U		0.41	1.4	µg/L	1	9/29/2020 19:07
Ethylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 19:07
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	9/29/2020 19:07
Isopropylbenzene	U		0.35	1.2	µg/L	1	9/29/2020 19:07
m,p-Xylene	U		0.81	2.7	µg/L	1	9/29/2020 19:07
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	9/29/2020 19:07
Methylene chloride	U		0.86	2.9	µg/L	1	9/29/2020 19:07
Naphthalene	U		0.77	2.6	µg/L	1	9/29/2020 19:07
n-Butylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 19:07
n-Propylbenzene	U		0.48	1.6	µg/L	1	9/29/2020 19:07
o-Xylene	U		0.31	1.0	µg/L	1	9/29/2020 19:07
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	9/29/2020 19:07
sec-Butylbenzene	U		0.30	1.0	µg/L	1	9/29/2020 19:07
Styrene	U		0.33	1.1	µg/L	1	9/29/2020 19:07
tert-Butylbenzene	U		0.39	1.3	µg/L	1	9/29/2020 19:07
Tetrachloroethene	U		0.39	1.3	µg/L	1	9/29/2020 19:07
Toluene	U		0.45	1.5	µg/L	1	9/29/2020 19:07
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	9/29/2020 19:07
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	9/29/2020 19:07
Trichloroethene	U		0.43	1.4	µg/L	1	9/29/2020 19:07
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	9/29/2020 19:07
Vinyl chloride	U		0.53	1.8	µg/L	1	9/29/2020 19:07
Xylenes, Total	U		0.81	4.4	µg/L	1	9/29/2020 19:07
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	9/29/2020 19:07
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	9/29/2020 19:07
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	9/29/2020 19:07
Surr: Toluene-d8	100			85-110	%REC	1	9/29/2020 19:07

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

Client: Gannett Fleming, Inc.
Work Order: 20091880
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R299236** Instrument ID **VMS10** Method: **SW8260C**

MBLK		Sample ID: VBK2-200929-R299236			Units: µg/L		Analysis Date: 9/29/2020 06:27 PM				
Client ID:		Run ID: VMS10_200929A			SeqNo: 6747163		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	0.38	1.3								
1,1,1-Trichloroethane	U	0.46	1.5								
1,1,2,2-Tetrachloroethane	U	0.4	1.3								
1,1,2-Trichloroethane	U	0.46	1.5								
1,1-Dichloroethane	U	0.44	1.5								
1,1-Dichloroethene	U	0.4	1.4								
1,1-Dichloropropene	U	0.37	1.2								
1,2,3-Trichlorobenzene	U	0.42	1.4								
1,2,3-Trichloropropane	U	0.4	1.3								
1,2,4-Trichlorobenzene	U	0.45	1.5								
1,2,4-Trimethylbenzene	U	0.45	1.5								
1,2-Dibromo-3-chloropropane	U	0.43	1.4								
1,2-Dibromoethane	U	0.41	1.4								
1,2-Dichlorobenzene	U	0.32	1.1								
1,2-Dichloroethane	U	0.44	1.4								
1,2-Dichloropropane	U	0.48	1.6								
1,3,5-Trimethylbenzene	U	0.65	2.2								
1,3-Dichlorobenzene	U	0.33	1.1								
1,3-Dichloropropane	U	0.4	1.3								
1,4-Dichlorobenzene	U	0.35	1.2								
2,2-Dichloropropane	U	0.52	1.7								
2-Butanone	U	0.52	1.7								
2-Chlorotoluene	U	0.36	1.2								
2-Propanol	U	33	110								
4-Chlorotoluene	U	0.31	1.0								
4-Methyl-2-pentanone	U	0.52	1.7								
Acetone	U	6.2	21								
Benzene	U	0.46	1.5								
Bromobenzene	U	0.38	1.3								
Bromochloromethane	U	0.45	1.5								
Bromodichloromethane	U	0.49	1.6								
Bromoform	U	0.56	1.9								
Bromomethane	U	0.9	3.0								
Carbon tetrachloride	U	0.4	1.4								
Chlorobenzene	U	0.4	1.3								
Chloroethane	U	0.68	2.3								
Chloroform	U	0.46	1.5								
Chloromethane	U	0.83	2.8								
cis-1,2-Dichloroethene	U	0.42	1.4								
cis-1,3-Dichloropropene	U	0.57	1.9								
Dibromochloromethane	U	0.4	1.3								

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

Client: Gannett Fleming, Inc.
 Work Order: 20091880
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10	Method: SW8260C							
Dibromomethane	U	0.65	2.2						
Dichlorodifluoromethane	U	0.68	2.3						
Diisopropyl ether	U	0.41	1.4						
Ethylbenzene	U	0.34	1.1						
Hexachlorobutadiene	0.58	0.56	1.9						J
Isopropylbenzene	U	0.35	1.2						
m,p-Xylene	U	0.81	2.7						
Methyl tert-butyl ether	U	0.45	1.5						
Methylene chloride	U	0.86	2.9						
Naphthalene	U	0.77	2.6						
n-Butylbenzene	U	0.34	1.1						
n-Propylbenzene	U	0.48	1.6						
o-Xylene	U	0.31	1.0						
p-Isopropyltoluene	U	0.26	0.88						
sec-Butylbenzene	U	0.3	1.0						
Styrene	U	0.33	1.1						
tert-Butylbenzene	U	0.39	1.3						
Tetrachloroethene	U	0.39	1.3						
Toluene	U	0.45	1.5						
trans-1,2-Dichloroethene	U	0.48	1.6						
trans-1,3-Dichloropropene	U	0.38	2.7						
Trichloroethene	U	0.43	1.4						
Trichlorofluoromethane	U	0.52	1.7						
Vinyl chloride	U	0.53	1.8						
Xylenes, Total	U	0.81	4.4						
<i>Surr: 1,2-Dichloroethane-d4</i>	20.01	0	0	20	0	100	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.9	0	0	20	0	99.5	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.88	0	0	20	0	99.4	85-115	0	
<i>Surr: Toluene-d8</i>	20.21	0	0	20	0	101	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091880
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R299236** Instrument ID **VMS10** Method: **SW8260C**

LCS		Sample ID: VLCSW1-200929-R299236				Units: µg/L		Analysis Date: 9/29/2020 05:27 PM			
Client ID:		Run ID: VMS10_200929A			SeqNo: 6747161		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	19.54	0.38	1.3	20	0	97.7	73-114	0			
1,1,1-Trichloroethane	20.49	0.46	1.5	20	0	102	75-130	0			
1,1,2,2-Tetrachloroethane	19.83	0.4	1.3	20	0	99.2	75-130	0			
1,1,2-Trichloroethane	19.37	0.46	1.5	20	0	96.8	75-125	0			
1,1-Dichloroethane	20.22	0.44	1.5	20	0	101	68-142	0			
1,1-Dichloroethene	21.81	0.4	1.4	20	0	109	70-145	0			
1,1-Dichloropropene	20.06	0.37	1.2	20	0	100	75-135	0			
1,2,3-Trichlorobenzene	18.99	0.42	1.4	20	0	95	70-140	0			
1,2,3-Trichloropropane	19.36	0.4	1.3	20	0	96.8	75-125	0			
1,2,4-Trichlorobenzene	19.36	0.45	1.5	20	0	96.8	70-135	0			
1,2,4-Trimethylbenzene	19.44	0.45	1.5	20	0	97.2	75-130	0			
1,2-Dibromo-3-chloropropane	18.66	0.43	1.4	20	0	93.3	60-130	0			
1,2-Dibromoethane	20.45	0.41	1.4	20	0	102	67-155	0			
1,2-Dichlorobenzene	19.42	0.32	1.1	20	0	97.1	70-130	0			
1,2-Dichloroethane	19.34	0.44	1.4	20	0	96.7	78-125	0			
1,2-Dichloropropane	19.82	0.48	1.6	20	0	99.1	75-125	0			
1,3,5-Trimethylbenzene	19.67	0.65	2.2	20	0	98.4	75-130	0			
1,3-Dichlorobenzene	19.97	0.33	1.1	20	0	99.8	75-130	0			
1,3-Dichloropropane	19.96	0.4	1.3	20	0	99.8	75-125	0			
1,4-Dichlorobenzene	20.03	0.35	1.2	20	0	100	75-130	0			
2,2-Dichloropropane	20.17	0.52	1.7	20	0	101	43-150	0			
2-Butanone	19.7	0.52	1.7	20	0	98.5	55-150	0			
2-Chlorotoluene	18.29	0.36	1.2	20	0	91.4	76-117	0			
4-Chlorotoluene	19.44	0.31	1.0	20	0	97.2	80-125	0			
4-Methyl-2-pentanone	27.34	0.52	1.7	20	0	137	77-178	0			
Acetone	20.74	6.2	21	20	0	104	60-160	0			J
Benzene	19.78	0.46	1.5	20	0	98.9	70-130	0			
Bromobenzene	19.06	0.38	1.3	20	0	95.3	80-125	0			
Bromochloromethane	19.72	0.45	1.5	20	0	98.6	72-141	0			
Bromodichloromethane	19.65	0.49	1.6	20	0	98.2	75-125	0			
Bromoform	19.01	0.56	1.9	20	0	95	60-125	0			
Bromomethane	32.17	0.9	3.0	20	0	161	30-185	0			
Carbon tetrachloride	17.6	0.4	1.4	20	0	88	65-140	0			
Chlorobenzene	18.9	0.4	1.3	20	0	94.5	80-120	0			
Chloroethane	21.6	0.68	2.3	20	0	108	31-172	0			
Chloroform	19.41	0.46	1.5	20	0	97	66-135	0			
Chloromethane	13.57	0.83	2.8	20	0	67.8	46-148	0			
cis-1,2-Dichloroethene	20.2	0.42	1.4	20	0	101	75-134	0			
cis-1,3-Dichloropropene	19.26	0.57	1.9	20	0	96.3	70-130	0			
Dibromochloromethane	17.22	0.4	1.3	20	0	86.1	60-115	0			
Dibromomethane	19.61	0.65	2.2	20	0	98	79-126	0			
Dichlorodifluoromethane	16.84	0.68	2.3	20	0	84.2	20-120	0			
Diisopropyl ether	20.5	0.41	1.4	20	0	102	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 20091880
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10		Method: SW8260C						
Ethylbenzene	19.67	0.34	1.1	20	0	98.4	76-123	0	
Hexachlorobutadiene	22.78	0.56	1.9	20	0	114	70-155	0	
Isopropylbenzene	20.45	0.35	1.2	20	0	102	80-127	0	
m,p-Xylene	39.11	0.81	2.7	40	0	97.8	75-130	0	
Methyl tert-butyl ether	21.18	0.45	1.5	20	0	106	68-129	0	
Methylene chloride	18.49	0.86	2.9	20	0	92.4	72-125	0	
Naphthalene	19.69	0.77	2.6	20	0	98.4	55-160	0	
n-Butylbenzene	20.12	0.34	1.1	20	0	101	75-145	0	
n-Propylbenzene	20.79	0.48	1.6	20	0	104	76-116	0	
o-Xylene	19.27	0.31	1.0	20	0	96.4	76-127	0	
p-Isopropyltoluene	20.65	0.26	0.88	20	0	103	61-164	0	
sec-Butylbenzene	21.25	0.3	1.0	20	0	106	80-134	0	
Styrene	19.62	0.33	1.1	20	0	98.1	83-137	0	
tert-Butylbenzene	20.73	0.39	1.3	20	0	104	70-130	0	
Tetrachloroethene	22.19	0.39	1.3	20	0	111	68-166	0	
Toluene	19.92	0.45	1.5	20	0	99.6	76-125	0	
trans-1,2-Dichloroethene	21.09	0.48	1.6	20	0	105	80-140	0	
trans-1,3-Dichloropropene	18.22	0.38	2.7	20	0	91.1	56-132	0	
Trichloroethene	21.57	0.43	1.4	20	0	108	77-125	0	
Trichlorofluoromethane	14.73	0.52	1.7	20	0	73.6	60-140	0	
Vinyl chloride	17.79	0.53	1.8	20	0	89	50-136	0	
Xylenes, Total	58.38	0.81	4.4	60	0	97.3	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.46	0	0	20	0	102	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.16	0	0	20	0	101	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.34	0	0	20	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	20.3	0	0	20	0	102	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091880
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R299236** Instrument ID **VMS10** Method: **SW8260C**

MS		Sample ID: 20091882-10A MS				Units: µg/L		Analysis Date: 9/30/2020 01:47 AM			
Client ID:		Run ID: VMS10_200929A			SeqNo: 6747185		Prep Date:		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1780	38	130	2000	0	89	73-114	0			
1,1,1-Trichloroethane	1842	46	150	2000	0	92.1	75-130	0			
1,1,2,2-Tetrachloroethane	1959	40	130	2000	0	98	75-130	0			
1,1,2-Trichloroethane	1806	46	150	2000	0	90.3	75-125	0			
1,1-Dichloroethane	1913	44	150	2000	42	93.6	68-142	0			
1,1-Dichloroethene	1989	40	140	2000	0	99.4	70-145	0			
1,1-Dichloropropene	1723	37	120	2000	0	86.2	75-135	0			
1,2,3-Trichlorobenzene	1667	42	140	2000	0	83.4	70-140	0			
1,2,3-Trichloropropane	1822	40	130	2000	0	91.1	75-125	0			
1,2,4-Trichlorobenzene	1713	45	150	2000	0	85.6	70-135	0			
1,2,4-Trimethylbenzene	1683	45	150	2000	0	84.2	75-130	0			
1,2-Dibromo-3-chloropropane	1806	43	140	2000	0	90.3	60-130	0			
1,2-Dibromoethane	1968	41	140	2000	0	98.4	67-155	0			
1,2-Dichlorobenzene	1831	32	110	2000	0	91.6	70-130	0			
1,2-Dichloroethane	1900	44	140	2000	0	95	78-125	0			
1,2-Dichloropropane	1836	48	160	2000	0	91.8	75-125	0			
1,3,5-Trimethylbenzene	1741	65	220	2000	0	87	75-130	0			
1,3-Dichlorobenzene	1857	33	110	2000	0	92.8	75-130	0			
1,3-Dichloropropane	1870	40	130	2000	0	93.5	75-125	0			
1,4-Dichlorobenzene	1797	35	120	2000	0	89.8	75-130	0			
2,2-Dichloropropane	1510	52	170	2000	0	75.5	43-150	0			
2-Butanone	1874	52	170	2000	157	85.8	55-150	0			
2-Chlorotoluene	1702	36	120	2000	0	85.1	76-117	0			
4-Chlorotoluene	1727	31	100	2000	0	86.4	80-125	0			
4-Methyl-2-pentanone	3204	52	170	2000	641	128	77-178	0			
Acetone	2212	620	2,100	2000	301	95.6	60-160	0			
Benzene	1852	46	150	2000	0	92.6	70-130	0			
Bromobenzene	1753	38	130	2000	0	87.6	80-125	0			
Bromochloromethane	1950	45	150	2000	0	97.5	72-141	0			
Bromodichloromethane	1825	49	160	2000	0	91.2	75-125	0			
Bromoform	1729	56	190	2000	0	86.4	60-125	0			
Bromomethane	3307	90	300	2000	0	165	30-185	0			
Carbon tetrachloride	1531	40	140	2000	0	76.6	65-140	0			
Chlorobenzene	1756	40	130	2000	0	87.8	80-120	0			
Chloroethane	2552	68	230	2000	827	86.2	31-172	0			
Chloroform	1859	46	150	2000	0	93	66-135	0			
Chloromethane	956	83	280	2000	0	47.8	46-148	0			
cis-1,2-Dichloroethene	1921	42	140	2000	0	96	75-134	0			
cis-1,3-Dichloropropene	1752	57	190	2000	0	87.6	70-130	0			
Dibromochloromethane	1606	40	130	2000	0	80.3	60-115	0			
Dibromomethane	1887	65	220	2000	0	94.4	79-126	0			
Dichlorodifluoromethane	1260	68	230	2000	0	63	20-120	0			
Diisopropyl ether	1867	41	140	2000	0	93.4	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 20091880
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10		Method: SW8260C						
Ethylbenzene	1810	34	110	2000	0	90.5	76-123	0	
Hexachlorobutadiene	1596	56	190	2000	0	79.8	70-155	0	
Isopropylbenzene	1795	35	120	2000	0	89.8	80-127	0	
m,p-Xylene	3502	81	270	4000	0	87.6	75-130	0	
Methyl tert-butyl ether	1945	45	150	2000	0	97.2	68-129	0	
Methylene chloride	1801	86	290	2000	0	90	72-125	0	
Naphthalene	1851	77	260	2000	0	92.6	55-160	0	
n-Butylbenzene	1567	34	110	2000	0	78.4	75-145	0	
n-Propylbenzene	1712	48	160	2000	0	85.6	76-116	0	
o-Xylene	1779	31	100	2000	0	89	76-127	0	
p-Isopropyltoluene	1773	26	88	2000	0	88.6	61-164	0	
sec-Butylbenzene	1780	30	100	2000	0	89	80-134	0	
Styrene	1810	33	110	2000	0	90.5	83-137	0	
tert-Butylbenzene	1664	39	130	2000	0	83.2	70-130	0	
Tetrachloroethene	1944	39	130	2000	0	97.2	68-166	0	
Toluene	2306	45	150	2000	444	93.1	76-125	0	
trans-1,2-Dichloroethene	1845	48	160	2000	0	92.2	80-140	0	
trans-1,3-Dichloropropene	1578	38	270	2000	0	78.9	56-132	0	
Trichloroethene	1987	43	140	2000	0	99.4	77-125	0	
Trichlorofluoromethane	1311	52	170	2000	0	65.6	60-140	0	
Vinyl chloride	1553	53	180	2000	0	77.6	50-136	0	
Xylenes, Total	5281	81	440	6000	0	88	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	2030	0	0	2000	0	102	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	1988	0	0	2000	0	99.4	80-110	0	
<i>Surr: Dibromofluoromethane</i>	2031	0	0	2000	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	2008	0	0	2000	0	100	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091880
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236 Instrument ID VMS10 Method: SW8260C

MSD		Sample ID: 20091882-10A MSD				Units: µg/L			Analysis Date: 9/30/2020 02:07 AM		
Client ID:		Run ID: VMS10_200929A				SeqNo: 6747186		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1719	38	130	2000	0	86	73-114	1780	3.49	30	
1,1,1-Trichloroethane	1833	46	150	2000	0	91.6	75-130	1842	0.49	30	
1,1,2,2-Tetrachloroethane	1889	40	130	2000	0	94.4	75-130	1959	3.64	30	
1,1,2-Trichloroethane	1845	46	150	2000	0	92.2	75-125	1806	2.14	30	
1,1-Dichloroethane	1884	44	150	2000	42	92.1	68-142	1913	1.53	30	
1,1-Dichloroethene	1997	40	140	2000	0	99.8	70-145	1989	0.401	30	
1,1-Dichloropropene	1796	37	120	2000	0	89.8	75-135	1723	4.15	30	
1,2,3-Trichlorobenzene	1664	42	140	2000	0	83.2	70-140	1667	0.18	30	
1,2,3-Trichloropropane	1885	40	130	2000	0	94.2	75-125	1822	3.4	30	
1,2,4-Trichlorobenzene	1671	45	150	2000	0	83.6	70-135	1713	2.48	30	
1,2,4-Trimethylbenzene	1698	45	150	2000	0	84.9	75-130	1683	0.887	30	
1,2-Dibromo-3-chloropropane	1719	43	140	2000	0	86	60-130	1806	4.94	30	
1,2-Dibromoethane	1942	41	140	2000	0	97.1	67-155	1968	1.33	30	
1,2-Dichlorobenzene	1754	32	110	2000	0	87.7	70-130	1831	4.3	30	
1,2-Dichloroethane	1909	44	140	2000	0	95.4	78-125	1900	0.473	30	
1,2-Dichloropropane	1872	48	160	2000	0	93.6	75-125	1836	1.94	30	
1,3,5-Trimethylbenzene	1731	65	220	2000	0	86.6	75-130	1741	0.576	30	
1,3-Dichlorobenzene	1786	33	110	2000	0	89.3	75-130	1857	3.9	30	
1,3-Dichloropropane	1853	40	130	2000	0	92.6	75-125	1870	0.913	30	
1,4-Dichlorobenzene	1780	35	120	2000	0	89	75-130	1797	0.951	30	
2,2-Dichloropropane	1494	52	170	2000	0	74.7	43-150	1510	1.07	30	
2-Butanone	1926	52	170	2000	157	88.4	55-150	1874	2.74	30	
2-Chlorotoluene	1651	36	120	2000	0	82.6	76-117	1702	3.04	30	
4-Chlorotoluene	1750	31	100	2000	0	87.5	80-125	1727	1.32	30	
4-Methyl-2-pentanone	3090	52	170	2000	641	122	77-178	3204	3.62	30	
Acetone	2194	620	2,100	2000	301	94.6	60-160	2212	0.817	30	
Benzene	1856	46	150	2000	0	92.8	70-130	1852	0.216	30	
Bromobenzene	1758	38	130	2000	0	87.9	80-125	1753	0.285	30	
Bromochloromethane	1904	45	150	2000	0	95.2	72-141	1950	2.39	30	
Bromodichloromethane	1866	49	160	2000	0	93.3	75-125	1825	2.22	30	
Bromoform	1703	56	190	2000	0	85.2	60-125	1729	1.52	30	
Bromomethane	3217	90	300	2000	0	161	30-185	3307	2.76	30	
Carbon tetrachloride	1545	40	140	2000	0	77.2	65-140	1531	0.91	30	
Chlorobenzene	1743	40	130	2000	0	87.2	80-120	1756	0.743	30	
Chloroethane	3001	68	230	2000	827	109	31-172	2552	16.2	30	
Chloroform	1797	46	150	2000	0	89.8	66-135	1859	3.39	30	
Chloromethane	1011	83	280	2000	0	50.6	46-148	956	5.59	30	
cis-1,2-Dichloroethene	1895	42	140	2000	0	94.8	75-134	1921	1.36	30	
cis-1,3-Dichloropropene	1715	57	190	2000	0	85.8	70-130	1752	2.13	30	
Dibromochloromethane	1571	40	130	2000	0	78.6	60-115	1606	2.2	30	
Dibromomethane	1880	65	220	2000	0	94	79-126	1887	0.372	30	
Dichlorodifluoromethane	1296	68	230	2000	0	64.8	20-120	1260	2.82	30	
Diisopropyl ether	1829	41	140	2000	0	91.4	58-133	1867	2.06	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091880
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10		Method: SW8260C							
Ethylbenzene	1747	34	110	2000	0	87.4	76-123	1810	3.54	30
Hexachlorobutadiene	1678	56	190	2000	0	83.9	70-155	1596	5.01	30
Isopropylbenzene	1778	35	120	2000	0	88.9	80-127	1795	0.952	30
m,p-Xylene	3475	81	270	4000	0	86.9	75-130	3502	0.774	30
Methyl tert-butyl ether	1900	45	150	2000	0	95	68-129	1945	2.34	30
Methylene chloride	1775	86	290	2000	0	88.8	72-125	1801	1.45	30
Naphthalene	1792	77	260	2000	0	89.6	55-160	1851	3.24	30
n-Butylbenzene	1585	34	110	2000	0	79.2	75-145	1567	1.14	30
n-Propylbenzene	1784	48	160	2000	0	89.2	76-116	1712	4.12	30
o-Xylene	1776	31	100	2000	0	88.8	76-127	1779	0.169	30
p-Isopropyltoluene	1722	26	88	2000	0	86.1	61-164	1773	2.92	30
sec-Butylbenzene	1758	30	100	2000	0	87.9	80-134	1780	1.24	30
Styrene	1847	33	110	2000	0	92.4	83-137	1810	2.02	30
tert-Butylbenzene	1711	39	130	2000	0	85.6	70-130	1664	2.79	30
Tetrachloroethene	1923	39	130	2000	0	96.2	68-166	1944	1.09	30
Toluene	2258	45	150	2000	444	90.7	76-125	2306	2.1	30
trans-1,2-Dichloroethene	1877	48	160	2000	0	93.8	80-140	1845	1.72	30
trans-1,3-Dichloropropene	1542	38	270	2000	0	77.1	56-132	1578	2.31	30
Trichloroethene	1946	43	140	2000	0	97.3	77-125	1987	2.08	30
Trichlorofluoromethane	1309	52	170	2000	0	65.4	60-140	1311	0.153	30
Vinyl chloride	1528	53	180	2000	0	76.4	50-136	1553	1.62	30
Xylenes, Total	5251	81	440	6000	0	87.5	76-127	5281	0.57	30
<i>Surr: 1,2-Dichloroethane-d4</i>	2080	0	0	2000	0	104	75-120	2030	2.43	30
<i>Surr: 4-Bromofluorobenzene</i>	2010	0	0	2000	0	100	80-110	1988	1.1	30
<i>Surr: Dibromofluoromethane</i>	2035	0	0	2000	0	102	85-115	2031	0.197	30
<i>Surr: Toluene-d8</i>	1992	0	0	2000	0	99.6	85-110	2008	0.8	30

The following samples were analyzed in this batch:

20091880-01A	20091880-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Houston, TX
+1 281 530 5656

Spring City, PA
+1 610 948 4903

South Charleston, WV
+1 304 356 3168

Middletown, PA
+1 717 944 5541

Salt Lake City, UT
+1 801 266 7700

York, PA
+1 717 505 5280

Page 1 of 1

COC ID: 222688

ALS Project Manager: **EB**

ALS Work Order #: **20091880**

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	55929.005	Project Name	WRR	A	VOLs										
Work Order		Project Number	55929.005	B											
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C											
Send Report To	Anthony Miller	Invoice Attn	Accounts Payable	D											
Address	8040 Excelsior Drive	Address	8040 Excelsior Drive	E											
	Suite 303		Suite 303	F											
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G											
Phone	(608) 836-1500	Phone	(608) 836-1500	H											
Fax		Fax		I											
e-Mail Address	awmiller@gfnet.com	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PW-11	9.21.20	16:45	GW	HCl	3	X										
2	Trip Blank	"	"	"	"	2	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Chelsea Payne</i>		Shipment Method FedEx		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>Chelsea Payne</i>	Date: 9.21.20	Time: 18:00	Received by: <i>FED EX</i>	Notes:							
Relinquished by: <i>FED EX</i>	Date: 9/22/20	Time: 1030	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory): <i>DES</i>	Date: 9/22/20	Time: 1615	Checked by (Laboratory): <i>[Signature]</i>	IR1	2.25L	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV						
				<input type="checkbox"/> Level IV SW846/CLP							
				<input type="checkbox"/> Other							

Sample Receipt Checklist

Client Name: **GANNETT FLEMING - WI**

Date/Time Received: **22-Sep-20 10:30**

Work Order: **20091880**

Received by: **DS**

Checklist completed by Diane Shaw 22-Sep-20
eSignature Date

Reviewed by: Eheland Bramworth 22-Sep-20
eSignature Date

Matrices: Groundwater

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):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

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

Excellence Delivered *As Promised*

October 1, 2020

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 September 2020

Dear Ms. Shan:


On September 21, 2020, 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 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 was sent to ALS Laboratory in Holland, Michigan, for analysis of 65 individual volatile organic compounds (VOCs). No VOCs were detected in the water sample collected from your home in September. Enclosed is a copy of the laboratory report for the water sample that was collected from your home (PW-16) in September 2020.

A copy of this letter and the September 2020 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 time convenient for you for us to collect the next sample. In the meantime, if you have any questions, 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/jec/Enc.

cc: Matthew Vitale, Doug Coenen (WDNR)

C:\Users\jconway\OneDrive - Gannett Fleming Inc\Desktop\55929-WRR-S\PW-16_5535_WRL.docx

Gannett Fleming, Inc.

8040 Excelsior Drive, Suite 303, Madison, WI 53717

t 608.327.5050

www.gannettfleming.com



30-Sep-2020

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

Re: **WRR (55929.005)**

Work Order: **20091872**

Dear Anthony,

ALS Environmental received 2 samples on 22-Sep-2020 10:30 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 18.

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,

A handwritten signature in black ink that reads "Ehrland Bosworth".

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 20091872

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20091872-01	PW-16	Groundwater		9/21/2020 16:30	9/22/2020 10:30	<input type="checkbox"/>
20091872-02	Trip Blank	Water		9/21/2020	9/22/2020 10:30	<input type="checkbox"/>

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
WorkOrder: 20091872

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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
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.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Work Order: 20091872

Case Narrative

Samples for the above noted Work Order were received on 09/22/2020. 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:

No deviations or anomalies were noted.

Client: Gannett Fleming, Inc.
 Project: WRR (55929.005)
 Sample ID: PW-16
 Collection Date: 9/21/2020 04:30 PM

Work Order: 20091872
 Lab ID: 20091872-01
 Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Analyst: SJB	
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	9/29/2020 20:07
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 20:07
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	9/29/2020 20:07
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 20:07
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	9/29/2020 20:07
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	9/29/2020 20:07
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	9/29/2020 20:07
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	9/29/2020 20:07
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 20:07
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	9/29/2020 20:07
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	9/29/2020 20:07
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	9/29/2020 20:07
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	9/29/2020 20:07
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	9/29/2020 20:07
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	9/29/2020 20:07
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	9/29/2020 20:07
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	9/29/2020 20:07
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	9/29/2020 20:07
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 20:07
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	9/29/2020 20:07
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	9/29/2020 20:07
2-Butanone	U		0.52	1.7	µg/L	1	9/29/2020 20:07
2-Chlorotoluene	U		0.36	1.2	µg/L	1	9/29/2020 20:07
2-Propanol	U		33	110	µg/L	1	9/29/2020 20:07
4-Chlorotoluene	U		0.31	1.0	µg/L	1	9/29/2020 20:07
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	9/29/2020 20:07
Acetone	U		6.2	21	µg/L	1	9/29/2020 20:07
Benzene	U		0.46	1.5	µg/L	1	9/29/2020 20:07
Bromobenzene	U		0.38	1.3	µg/L	1	9/29/2020 20:07
Bromochloromethane	U		0.45	1.5	µg/L	1	9/29/2020 20:07
Bromodichloromethane	U		0.49	1.6	µg/L	1	9/29/2020 20:07
Bromoform	U		0.56	1.9	µg/L	1	9/29/2020 20:07
Bromomethane	U		0.90	3.0	µg/L	1	9/29/2020 20:07
Carbon tetrachloride	U		0.40	1.4	µg/L	1	9/29/2020 20:07
Chlorobenzene	U		0.40	1.3	µg/L	1	9/29/2020 20:07
Chloroethane	U		0.68	2.3	µg/L	1	9/29/2020 20:07
Chloroform	U		0.46	1.5	µg/L	1	9/29/2020 20:07
Chloromethane	U		0.83	2.8	µg/L	1	9/29/2020 20:07

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

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: PW-16
Collection Date: 9/21/2020 04:30 PM

Work Order: 20091872
Lab ID: 20091872-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	9/29/2020 20:07
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	9/29/2020 20:07
Dibromochloromethane	U		0.40	1.3	µg/L	1	9/29/2020 20:07
Dibromomethane	U		0.65	2.2	µg/L	1	9/29/2020 20:07
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	9/29/2020 20:07
Diisopropyl ether	U		0.41	1.4	µg/L	1	9/29/2020 20:07
Ethylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 20:07
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	9/29/2020 20:07
Isopropylbenzene	U		0.35	1.2	µg/L	1	9/29/2020 20:07
m,p-Xylene	U		0.81	2.7	µg/L	1	9/29/2020 20:07
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	9/29/2020 20:07
Methylene chloride	U		0.86	2.9	µg/L	1	9/29/2020 20:07
Naphthalene	U		0.77	2.6	µg/L	1	9/29/2020 20:07
n-Butylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 20:07
n-Propylbenzene	U		0.48	1.6	µg/L	1	9/29/2020 20:07
o-Xylene	U		0.31	1.0	µg/L	1	9/29/2020 20:07
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	9/29/2020 20:07
sec-Butylbenzene	U		0.30	1.0	µg/L	1	9/29/2020 20:07
Styrene	U		0.33	1.1	µg/L	1	9/29/2020 20:07
tert-Butylbenzene	U		0.39	1.3	µg/L	1	9/29/2020 20:07
Tetrachloroethene	U		0.39	1.3	µg/L	1	9/29/2020 20:07
Toluene	U		0.45	1.5	µg/L	1	9/29/2020 20:07
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	9/29/2020 20:07
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	9/29/2020 20:07
Trichloroethene	U		0.43	1.4	µg/L	1	9/29/2020 20:07
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	9/29/2020 20:07
Vinyl chloride	U		0.53	1.8	µg/L	1	9/29/2020 20:07
Xylenes, Total	U		0.81	4.4	µg/L	1	9/29/2020 20:07
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	9/29/2020 20:07
Surr: 4-Bromofluorobenzene	99.6			80-110	%REC	1	9/29/2020 20:07
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	9/29/2020 20:07
Surr: Toluene-d8	99.9			85-110	%REC	1	9/29/2020 20:07

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

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 9/21/2020

Work Order: 20091872
Lab ID: 20091872-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C				Analyst: SJB
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	9/29/2020 19:07
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 19:07
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	9/29/2020 19:07
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	9/29/2020 19:07
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	9/29/2020 19:07
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	9/29/2020 19:07
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	9/29/2020 19:07
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	9/29/2020 19:07
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	9/29/2020 19:07
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	9/29/2020 19:07
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	9/29/2020 19:07
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	9/29/2020 19:07
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	9/29/2020 19:07
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	9/29/2020 19:07
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	9/29/2020 19:07
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	9/29/2020 19:07
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	9/29/2020 19:07
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	9/29/2020 19:07
2-Butanone	U		0.52	1.7	µg/L	1	9/29/2020 19:07
2-Chlorotoluene	U		0.36	1.2	µg/L	1	9/29/2020 19:07
2-Propanol	U		33	110	µg/L	1	9/29/2020 19:07
4-Chlorotoluene	U		0.31	1.0	µg/L	1	9/29/2020 19:07
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	9/29/2020 19:07
Acetone	U		6.2	21	µg/L	1	9/29/2020 19:07
Benzene	U		0.46	1.5	µg/L	1	9/29/2020 19:07
Bromobenzene	U		0.38	1.3	µg/L	1	9/29/2020 19:07
Bromochloromethane	U		0.45	1.5	µg/L	1	9/29/2020 19:07
Bromodichloromethane	U		0.49	1.6	µg/L	1	9/29/2020 19:07
Bromoform	U		0.56	1.9	µg/L	1	9/29/2020 19:07
Bromomethane	U		0.90	3.0	µg/L	1	9/29/2020 19:07
Carbon tetrachloride	U		0.40	1.4	µg/L	1	9/29/2020 19:07
Chlorobenzene	U		0.40	1.3	µg/L	1	9/29/2020 19:07
Chloroethane	U		0.68	2.3	µg/L	1	9/29/2020 19:07
Chloroform	U		0.46	1.5	µg/L	1	9/29/2020 19:07
Chloromethane	U		0.83	2.8	µg/L	1	9/29/2020 19:07

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

ALS Group, USA

Date: 30-Sep-20

Client: Gannett Fleming, Inc.
Project: WRR (55929.005)
Sample ID: Trip Blank
Collection Date: 9/21/2020

Work Order: 20091872
Lab ID: 20091872-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	9/29/2020 19:07
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	9/29/2020 19:07
Dibromochloromethane	U		0.40	1.3	µg/L	1	9/29/2020 19:07
Dibromomethane	U		0.65	2.2	µg/L	1	9/29/2020 19:07
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	9/29/2020 19:07
Diisopropyl ether	U		0.41	1.4	µg/L	1	9/29/2020 19:07
Ethylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 19:07
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	9/29/2020 19:07
Isopropylbenzene	U		0.35	1.2	µg/L	1	9/29/2020 19:07
m,p-Xylene	U		0.81	2.7	µg/L	1	9/29/2020 19:07
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	9/29/2020 19:07
Methylene chloride	U		0.86	2.9	µg/L	1	9/29/2020 19:07
Naphthalene	U		0.77	2.6	µg/L	1	9/29/2020 19:07
n-Butylbenzene	U		0.34	1.1	µg/L	1	9/29/2020 19:07
n-Propylbenzene	U		0.48	1.6	µg/L	1	9/29/2020 19:07
o-Xylene	U		0.31	1.0	µg/L	1	9/29/2020 19:07
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	9/29/2020 19:07
sec-Butylbenzene	U		0.30	1.0	µg/L	1	9/29/2020 19:07
Styrene	U		0.33	1.1	µg/L	1	9/29/2020 19:07
tert-Butylbenzene	U		0.39	1.3	µg/L	1	9/29/2020 19:07
Tetrachloroethene	U		0.39	1.3	µg/L	1	9/29/2020 19:07
Toluene	U		0.45	1.5	µg/L	1	9/29/2020 19:07
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	9/29/2020 19:07
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	9/29/2020 19:07
Trichloroethene	U		0.43	1.4	µg/L	1	9/29/2020 19:07
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	9/29/2020 19:07
Vinyl chloride	U		0.53	1.8	µg/L	1	9/29/2020 19:07
Xylenes, Total	U		0.81	4.4	µg/L	1	9/29/2020 19:07
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	9/29/2020 19:07
Surr: 4-Bromofluorobenzene	97.2			80-110	%REC	1	9/29/2020 19:07
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	9/29/2020 19:07
Surr: Toluene-d8	100			85-110	%REC	1	9/29/2020 19:07

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

Client: Gannett Fleming, Inc.
Work Order: 20091872
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R299236** Instrument ID **VMS10** Method: **SW8260C**

MBLK		Sample ID: VBK2-200929-R299236			Units: µg/L		Analysis Date: 9/29/2020 06:27 PM				
Client ID:		Run ID: VMS10_200929A			SeqNo: 6747163		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	0.38	1.3								
1,1,1-Trichloroethane	U	0.46	1.5								
1,1,2,2-Tetrachloroethane	U	0.4	1.3								
1,1,2-Trichloroethane	U	0.46	1.5								
1,1-Dichloroethane	U	0.44	1.5								
1,1-Dichloroethene	U	0.4	1.4								
1,1-Dichloropropene	U	0.37	1.2								
1,2,3-Trichlorobenzene	U	0.42	1.4								
1,2,3-Trichloropropane	U	0.4	1.3								
1,2,4-Trichlorobenzene	U	0.45	1.5								
1,2,4-Trimethylbenzene	U	0.45	1.5								
1,2-Dibromo-3-chloropropane	U	0.43	1.4								
1,2-Dibromoethane	U	0.41	1.4								
1,2-Dichlorobenzene	U	0.32	1.1								
1,2-Dichloroethane	U	0.44	1.4								
1,2-Dichloropropane	U	0.48	1.6								
1,3,5-Trimethylbenzene	U	0.65	2.2								
1,3-Dichlorobenzene	U	0.33	1.1								
1,3-Dichloropropane	U	0.4	1.3								
1,4-Dichlorobenzene	U	0.35	1.2								
2,2-Dichloropropane	U	0.52	1.7								
2-Butanone	U	0.52	1.7								
2-Chlorotoluene	U	0.36	1.2								
2-Propanol	U	33	110								
4-Chlorotoluene	U	0.31	1.0								
4-Methyl-2-pentanone	U	0.52	1.7								
Acetone	U	6.2	21								
Benzene	U	0.46	1.5								
Bromobenzene	U	0.38	1.3								
Bromochloromethane	U	0.45	1.5								
Bromodichloromethane	U	0.49	1.6								
Bromoform	U	0.56	1.9								
Bromomethane	U	0.9	3.0								
Carbon tetrachloride	U	0.4	1.4								
Chlorobenzene	U	0.4	1.3								
Chloroethane	U	0.68	2.3								
Chloroform	U	0.46	1.5								
Chloromethane	U	0.83	2.8								
cis-1,2-Dichloroethene	U	0.42	1.4								
cis-1,3-Dichloropropene	U	0.57	1.9								
Dibromochloromethane	U	0.4	1.3								

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

Client: Gannett Fleming, Inc.
 Work Order: 20091872
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10	Method: SW8260C							
Dibromomethane	U	0.65	2.2						
Dichlorodifluoromethane	U	0.68	2.3						
Diisopropyl ether	U	0.41	1.4						
Ethylbenzene	U	0.34	1.1						
Hexachlorobutadiene	0.58	0.56	1.9						J
Isopropylbenzene	U	0.35	1.2						
m,p-Xylene	U	0.81	2.7						
Methyl tert-butyl ether	U	0.45	1.5						
Methylene chloride	U	0.86	2.9						
Naphthalene	U	0.77	2.6						
n-Butylbenzene	U	0.34	1.1						
n-Propylbenzene	U	0.48	1.6						
o-Xylene	U	0.31	1.0						
p-Isopropyltoluene	U	0.26	0.88						
sec-Butylbenzene	U	0.3	1.0						
Styrene	U	0.33	1.1						
tert-Butylbenzene	U	0.39	1.3						
Tetrachloroethene	U	0.39	1.3						
Toluene	U	0.45	1.5						
trans-1,2-Dichloroethene	U	0.48	1.6						
trans-1,3-Dichloropropene	U	0.38	2.7						
Trichloroethene	U	0.43	1.4						
Trichlorofluoromethane	U	0.52	1.7						
Vinyl chloride	U	0.53	1.8						
Xylenes, Total	U	0.81	4.4						
<i>Surr: 1,2-Dichloroethane-d4</i>	20.01	0	0	20	0	100	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.9	0	0	20	0	99.5	80-110	0	
<i>Surr: Dibromofluoromethane</i>	19.88	0	0	20	0	99.4	85-115	0	
<i>Surr: Toluene-d8</i>	20.21	0	0	20	0	101	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091872
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236 Instrument ID VMS10 Method: SW8260C

LCS		Sample ID: VLCSW1-200929-R299236				Units: µg/L			Analysis Date: 9/29/2020 05:27 PM		
Client ID:		Run ID: VMS10_200929A				SeqNo: 6747161		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	19.54	0.38	1.3	20	0	97.7	73-114	0			
1,1,1-Trichloroethane	20.49	0.46	1.5	20	0	102	75-130	0			
1,1,2,2-Tetrachloroethane	19.83	0.4	1.3	20	0	99.2	75-130	0			
1,1,2-Trichloroethane	19.37	0.46	1.5	20	0	96.8	75-125	0			
1,1-Dichloroethane	20.22	0.44	1.5	20	0	101	68-142	0			
1,1-Dichloroethene	21.81	0.4	1.4	20	0	109	70-145	0			
1,1-Dichloropropene	20.06	0.37	1.2	20	0	100	75-135	0			
1,2,3-Trichlorobenzene	18.99	0.42	1.4	20	0	95	70-140	0			
1,2,3-Trichloropropane	19.36	0.4	1.3	20	0	96.8	75-125	0			
1,2,4-Trichlorobenzene	19.36	0.45	1.5	20	0	96.8	70-135	0			
1,2,4-Trimethylbenzene	19.44	0.45	1.5	20	0	97.2	75-130	0			
1,2-Dibromo-3-chloropropane	18.66	0.43	1.4	20	0	93.3	60-130	0			
1,2-Dibromoethane	20.45	0.41	1.4	20	0	102	67-155	0			
1,2-Dichlorobenzene	19.42	0.32	1.1	20	0	97.1	70-130	0			
1,2-Dichloroethane	19.34	0.44	1.4	20	0	96.7	78-125	0			
1,2-Dichloropropane	19.82	0.48	1.6	20	0	99.1	75-125	0			
1,3,5-Trimethylbenzene	19.67	0.65	2.2	20	0	98.4	75-130	0			
1,3-Dichlorobenzene	19.97	0.33	1.1	20	0	99.8	75-130	0			
1,3-Dichloropropane	19.96	0.4	1.3	20	0	99.8	75-125	0			
1,4-Dichlorobenzene	20.03	0.35	1.2	20	0	100	75-130	0			
2,2-Dichloropropane	20.17	0.52	1.7	20	0	101	43-150	0			
2-Butanone	19.7	0.52	1.7	20	0	98.5	55-150	0			
2-Chlorotoluene	18.29	0.36	1.2	20	0	91.4	76-117	0			
4-Chlorotoluene	19.44	0.31	1.0	20	0	97.2	80-125	0			
4-Methyl-2-pentanone	27.34	0.52	1.7	20	0	137	77-178	0			
Acetone	20.74	6.2	21	20	0	104	60-160	0			J
Benzene	19.78	0.46	1.5	20	0	98.9	70-130	0			
Bromobenzene	19.06	0.38	1.3	20	0	95.3	80-125	0			
Bromochloromethane	19.72	0.45	1.5	20	0	98.6	72-141	0			
Bromodichloromethane	19.65	0.49	1.6	20	0	98.2	75-125	0			
Bromoform	19.01	0.56	1.9	20	0	95	60-125	0			
Bromomethane	32.17	0.9	3.0	20	0	161	30-185	0			
Carbon tetrachloride	17.6	0.4	1.4	20	0	88	65-140	0			
Chlorobenzene	18.9	0.4	1.3	20	0	94.5	80-120	0			
Chloroethane	21.6	0.68	2.3	20	0	108	31-172	0			
Chloroform	19.41	0.46	1.5	20	0	97	66-135	0			
Chloromethane	13.57	0.83	2.8	20	0	67.8	46-148	0			
cis-1,2-Dichloroethene	20.2	0.42	1.4	20	0	101	75-134	0			
cis-1,3-Dichloropropene	19.26	0.57	1.9	20	0	96.3	70-130	0			
Dibromochloromethane	17.22	0.4	1.3	20	0	86.1	60-115	0			
Dibromomethane	19.61	0.65	2.2	20	0	98	79-126	0			
Dichlorodifluoromethane	16.84	0.68	2.3	20	0	84.2	20-120	0			
Diisopropyl ether	20.5	0.41	1.4	20	0	102	58-133	0			

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

Client: Gannett Fleming, Inc.
 Work Order: 20091872
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10		Method: SW8260C						
Ethylbenzene	19.67	0.34	1.1	20	0	98.4	76-123	0	
Hexachlorobutadiene	22.78	0.56	1.9	20	0	114	70-155	0	
Isopropylbenzene	20.45	0.35	1.2	20	0	102	80-127	0	
m,p-Xylene	39.11	0.81	2.7	40	0	97.8	75-130	0	
Methyl tert-butyl ether	21.18	0.45	1.5	20	0	106	68-129	0	
Methylene chloride	18.49	0.86	2.9	20	0	92.4	72-125	0	
Naphthalene	19.69	0.77	2.6	20	0	98.4	55-160	0	
n-Butylbenzene	20.12	0.34	1.1	20	0	101	75-145	0	
n-Propylbenzene	20.79	0.48	1.6	20	0	104	76-116	0	
o-Xylene	19.27	0.31	1.0	20	0	96.4	76-127	0	
p-Isopropyltoluene	20.65	0.26	0.88	20	0	103	61-164	0	
sec-Butylbenzene	21.25	0.3	1.0	20	0	106	80-134	0	
Styrene	19.62	0.33	1.1	20	0	98.1	83-137	0	
tert-Butylbenzene	20.73	0.39	1.3	20	0	104	70-130	0	
Tetrachloroethene	22.19	0.39	1.3	20	0	111	68-166	0	
Toluene	19.92	0.45	1.5	20	0	99.6	76-125	0	
trans-1,2-Dichloroethene	21.09	0.48	1.6	20	0	105	80-140	0	
trans-1,3-Dichloropropene	18.22	0.38	2.7	20	0	91.1	56-132	0	
Trichloroethene	21.57	0.43	1.4	20	0	108	77-125	0	
Trichlorofluoromethane	14.73	0.52	1.7	20	0	73.6	60-140	0	
Vinyl chloride	17.79	0.53	1.8	20	0	89	50-136	0	
Xylenes, Total	58.38	0.81	4.4	60	0	97.3	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	20.46	0	0	20	0	102	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	20.16	0	0	20	0	101	80-110	0	
<i>Surr: Dibromofluoromethane</i>	20.34	0	0	20	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	20.3	0	0	20	0	102	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091872
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R299236** Instrument ID **VMS10** Method: **SW8260C**

MS		Sample ID: 20091882-10A MS				Units: µg/L		Analysis Date: 9/30/2020 01:47 AM			
Client ID:		Run ID: VMS10_200929A				SeqNo: 6747185		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1780	38	130	2000	0	89	73-114	0			
1,1,1-Trichloroethane	1842	46	150	2000	0	92.1	75-130	0			
1,1,2,2-Tetrachloroethane	1959	40	130	2000	0	98	75-130	0			
1,1,2-Trichloroethane	1806	46	150	2000	0	90.3	75-125	0			
1,1-Dichloroethane	1913	44	150	2000	42	93.6	68-142	0			
1,1-Dichloroethene	1989	40	140	2000	0	99.4	70-145	0			
1,1-Dichloropropene	1723	37	120	2000	0	86.2	75-135	0			
1,2,3-Trichlorobenzene	1667	42	140	2000	0	83.4	70-140	0			
1,2,3-Trichloropropane	1822	40	130	2000	0	91.1	75-125	0			
1,2,4-Trichlorobenzene	1713	45	150	2000	0	85.6	70-135	0			
1,2,4-Trimethylbenzene	1683	45	150	2000	0	84.2	75-130	0			
1,2-Dibromo-3-chloropropane	1806	43	140	2000	0	90.3	60-130	0			
1,2-Dibromoethane	1968	41	140	2000	0	98.4	67-155	0			
1,2-Dichlorobenzene	1831	32	110	2000	0	91.6	70-130	0			
1,2-Dichloroethane	1900	44	140	2000	0	95	78-125	0			
1,2-Dichloropropane	1836	48	160	2000	0	91.8	75-125	0			
1,3,5-Trimethylbenzene	1741	65	220	2000	0	87	75-130	0			
1,3-Dichlorobenzene	1857	33	110	2000	0	92.8	75-130	0			
1,3-Dichloropropane	1870	40	130	2000	0	93.5	75-125	0			
1,4-Dichlorobenzene	1797	35	120	2000	0	89.8	75-130	0			
2,2-Dichloropropane	1510	52	170	2000	0	75.5	43-150	0			
2-Butanone	1874	52	170	2000	157	85.8	55-150	0			
2-Chlorotoluene	1702	36	120	2000	0	85.1	76-117	0			
4-Chlorotoluene	1727	31	100	2000	0	86.4	80-125	0			
4-Methyl-2-pentanone	3204	52	170	2000	641	128	77-178	0			
Acetone	2212	620	2,100	2000	301	95.6	60-160	0			
Benzene	1852	46	150	2000	0	92.6	70-130	0			
Bromobenzene	1753	38	130	2000	0	87.6	80-125	0			
Bromochloromethane	1950	45	150	2000	0	97.5	72-141	0			
Bromodichloromethane	1825	49	160	2000	0	91.2	75-125	0			
Bromoform	1729	56	190	2000	0	86.4	60-125	0			
Bromomethane	3307	90	300	2000	0	165	30-185	0			
Carbon tetrachloride	1531	40	140	2000	0	76.6	65-140	0			
Chlorobenzene	1756	40	130	2000	0	87.8	80-120	0			
Chloroethane	2552	68	230	2000	827	86.2	31-172	0			
Chloroform	1859	46	150	2000	0	93	66-135	0			
Chloromethane	956	83	280	2000	0	47.8	46-148	0			
cis-1,2-Dichloroethene	1921	42	140	2000	0	96	75-134	0			
cis-1,3-Dichloropropene	1752	57	190	2000	0	87.6	70-130	0			
Dibromochloromethane	1606	40	130	2000	0	80.3	60-115	0			
Dibromomethane	1887	65	220	2000	0	94.4	79-126	0			
Dichlorodifluoromethane	1260	68	230	2000	0	63	20-120	0			
Diisopropyl ether	1867	41	140	2000	0	93.4	58-133	0			

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

Client: Gannett Fleming, Inc.
Work Order: 20091872
Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10	Method: SW8260C							
Ethylbenzene	1810	34	110	2000	0	90.5	76-123	0	
Hexachlorobutadiene	1596	56	190	2000	0	79.8	70-155	0	
Isopropylbenzene	1795	35	120	2000	0	89.8	80-127	0	
m,p-Xylene	3502	81	270	4000	0	87.6	75-130	0	
Methyl tert-butyl ether	1945	45	150	2000	0	97.2	68-129	0	
Methylene chloride	1801	86	290	2000	0	90	72-125	0	
Naphthalene	1851	77	260	2000	0	92.6	55-160	0	
n-Butylbenzene	1567	34	110	2000	0	78.4	75-145	0	
n-Propylbenzene	1712	48	160	2000	0	85.6	76-116	0	
o-Xylene	1779	31	100	2000	0	89	76-127	0	
p-Isopropyltoluene	1773	26	88	2000	0	88.6	61-164	0	
sec-Butylbenzene	1780	30	100	2000	0	89	80-134	0	
Styrene	1810	33	110	2000	0	90.5	83-137	0	
tert-Butylbenzene	1664	39	130	2000	0	83.2	70-130	0	
Tetrachloroethene	1944	39	130	2000	0	97.2	68-166	0	
Toluene	2306	45	150	2000	444	93.1	76-125	0	
trans-1,2-Dichloroethene	1845	48	160	2000	0	92.2	80-140	0	
trans-1,3-Dichloropropene	1578	38	270	2000	0	78.9	56-132	0	
Trichloroethene	1987	43	140	2000	0	99.4	77-125	0	
Trichlorofluoromethane	1311	52	170	2000	0	65.6	60-140	0	
Vinyl chloride	1553	53	180	2000	0	77.6	50-136	0	
Xylenes, Total	5281	81	440	6000	0	88	76-127	0	
<i>Surr: 1,2-Dichloroethane-d4</i>	2030	0	0	2000	0	102	75-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	1988	0	0	2000	0	99.4	80-110	0	
<i>Surr: Dibromofluoromethane</i>	2031	0	0	2000	0	102	85-115	0	
<i>Surr: Toluene-d8</i>	2008	0	0	2000	0	100	85-110	0	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091872
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: **R299236** Instrument ID **VMS10** Method: **SW8260C**

MSD		Sample ID: 20091882-10A MSD				Units: µg/L			Analysis Date: 9/30/2020 02:07 AM		
Client ID:		Run ID: VMS10_200929A				SeqNo: 6747186		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1719	38	130	2000	0	86	73-114	1780	3.49	30	
1,1,1-Trichloroethane	1833	46	150	2000	0	91.6	75-130	1842	0.49	30	
1,1,2,2-Tetrachloroethane	1889	40	130	2000	0	94.4	75-130	1959	3.64	30	
1,1,2-Trichloroethane	1845	46	150	2000	0	92.2	75-125	1806	2.14	30	
1,1-Dichloroethane	1884	44	150	2000	42	92.1	68-142	1913	1.53	30	
1,1-Dichloroethene	1997	40	140	2000	0	99.8	70-145	1989	0.401	30	
1,1-Dichloropropene	1796	37	120	2000	0	89.8	75-135	1723	4.15	30	
1,2,3-Trichlorobenzene	1664	42	140	2000	0	83.2	70-140	1667	0.18	30	
1,2,3-Trichloropropane	1885	40	130	2000	0	94.2	75-125	1822	3.4	30	
1,2,4-Trichlorobenzene	1671	45	150	2000	0	83.6	70-135	1713	2.48	30	
1,2,4-Trimethylbenzene	1698	45	150	2000	0	84.9	75-130	1683	0.887	30	
1,2-Dibromo-3-chloropropane	1719	43	140	2000	0	86	60-130	1806	4.94	30	
1,2-Dibromoethane	1942	41	140	2000	0	97.1	67-155	1968	1.33	30	
1,2-Dichlorobenzene	1754	32	110	2000	0	87.7	70-130	1831	4.3	30	
1,2-Dichloroethane	1909	44	140	2000	0	95.4	78-125	1900	0.473	30	
1,2-Dichloropropane	1872	48	160	2000	0	93.6	75-125	1836	1.94	30	
1,3,5-Trimethylbenzene	1731	65	220	2000	0	86.6	75-130	1741	0.576	30	
1,3-Dichlorobenzene	1786	33	110	2000	0	89.3	75-130	1857	3.9	30	
1,3-Dichloropropane	1853	40	130	2000	0	92.6	75-125	1870	0.913	30	
1,4-Dichlorobenzene	1780	35	120	2000	0	89	75-130	1797	0.951	30	
2,2-Dichloropropane	1494	52	170	2000	0	74.7	43-150	1510	1.07	30	
2-Butanone	1926	52	170	2000	157	88.4	55-150	1874	2.74	30	
2-Chlorotoluene	1651	36	120	2000	0	82.6	76-117	1702	3.04	30	
4-Chlorotoluene	1750	31	100	2000	0	87.5	80-125	1727	1.32	30	
4-Methyl-2-pentanone	3090	52	170	2000	641	122	77-178	3204	3.62	30	
Acetone	2194	620	2,100	2000	301	94.6	60-160	2212	0.817	30	
Benzene	1856	46	150	2000	0	92.8	70-130	1852	0.216	30	
Bromobenzene	1758	38	130	2000	0	87.9	80-125	1753	0.285	30	
Bromochloromethane	1904	45	150	2000	0	95.2	72-141	1950	2.39	30	
Bromodichloromethane	1866	49	160	2000	0	93.3	75-125	1825	2.22	30	
Bromoform	1703	56	190	2000	0	85.2	60-125	1729	1.52	30	
Bromomethane	3217	90	300	2000	0	161	30-185	3307	2.76	30	
Carbon tetrachloride	1545	40	140	2000	0	77.2	65-140	1531	0.91	30	
Chlorobenzene	1743	40	130	2000	0	87.2	80-120	1756	0.743	30	
Chloroethane	3001	68	230	2000	827	109	31-172	2552	16.2	30	
Chloroform	1797	46	150	2000	0	89.8	66-135	1859	3.39	30	
Chloromethane	1011	83	280	2000	0	50.6	46-148	956	5.59	30	
cis-1,2-Dichloroethene	1895	42	140	2000	0	94.8	75-134	1921	1.36	30	
cis-1,3-Dichloropropene	1715	57	190	2000	0	85.8	70-130	1752	2.13	30	
Dibromochloromethane	1571	40	130	2000	0	78.6	60-115	1606	2.2	30	
Dibromomethane	1880	65	220	2000	0	94	79-126	1887	0.372	30	
Dichlorodifluoromethane	1296	68	230	2000	0	64.8	20-120	1260	2.82	30	
Diisopropyl ether	1829	41	140	2000	0	91.4	58-133	1867	2.06	30	

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

Client: Gannett Fleming, Inc.
 Work Order: 20091872
 Project: WRR (55929.005)

QC BATCH REPORT

Batch ID: R299236	Instrument ID VMS10	Method: SW8260C								
Ethylbenzene	1747	34	110	2000	0	87.4	76-123	1810	3.54	30
Hexachlorobutadiene	1678	56	190	2000	0	83.9	70-155	1596	5.01	30
Isopropylbenzene	1778	35	120	2000	0	88.9	80-127	1795	0.952	30
m,p-Xylene	3475	81	270	4000	0	86.9	75-130	3502	0.774	30
Methyl tert-butyl ether	1900	45	150	2000	0	95	68-129	1945	2.34	30
Methylene chloride	1775	86	290	2000	0	88.8	72-125	1801	1.45	30
Naphthalene	1792	77	260	2000	0	89.6	55-160	1851	3.24	30
n-Butylbenzene	1585	34	110	2000	0	79.2	75-145	1567	1.14	30
n-Propylbenzene	1784	48	160	2000	0	89.2	76-116	1712	4.12	30
o-Xylene	1776	31	100	2000	0	88.8	76-127	1779	0.169	30
p-Isopropyltoluene	1722	26	88	2000	0	86.1	61-164	1773	2.92	30
sec-Butylbenzene	1758	30	100	2000	0	87.9	80-134	1780	1.24	30
Styrene	1847	33	110	2000	0	92.4	83-137	1810	2.02	30
tert-Butylbenzene	1711	39	130	2000	0	85.6	70-130	1664	2.79	30
Tetrachloroethene	1923	39	130	2000	0	96.2	68-166	1944	1.09	30
Toluene	2258	45	150	2000	444	90.7	76-125	2306	2.1	30
trans-1,2-Dichloroethene	1877	48	160	2000	0	93.8	80-140	1845	1.72	30
trans-1,3-Dichloropropene	1542	38	270	2000	0	77.1	56-132	1578	2.31	30
Trichloroethene	1946	43	140	2000	0	97.3	77-125	1987	2.08	30
Trichlorofluoromethane	1309	52	170	2000	0	65.4	60-140	1311	0.153	30
Vinyl chloride	1528	53	180	2000	0	76.4	50-136	1553	1.62	30
Xylenes, Total	5251	81	440	6000	0	87.5	76-127	5281	0.57	30
<i>Surr: 1,2-Dichloroethane-d4</i>	2080	0	0	2000	0	104	75-120	2030	2.43	30
<i>Surr: 4-Bromofluorobenzene</i>	2010	0	0	2000	0	100	80-110	1988	1.1	30
<i>Surr: Dibromofluoromethane</i>	2035	0	0	2000	0	102	85-115	2031	0.197	30
<i>Surr: Toluene-d8</i>	1992	0	0	2000	0	99.6	85-110	2008	0.8	30

The following samples were analyzed in this batch:

20091872-01A	20091872-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 222687

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager: EB

ALS Work Order #: 20091872

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	<u>55929.005</u>	Project Name	<u>WRR</u>	A	<u>VOCS</u>										
Work Order		Project Number	<u>55929.005</u>	B											
Company Name	<u>Gannett Fleming, Inc</u>	Bill To Company	<u>Gannett Fleming, Inc</u>	C											
Send Report To	<u>Anthony Miller</u>	Invoice Attn	<u>Accounts Payable</u>	D											
Address	<u>8040 Excelsior Drive</u>	Address	<u>8040 Excelsior Drive</u>	E											
	<u>Suite 303</u>		<u>Suite 303</u>	F											
City/State/Zip	<u>Madison, WI 53717-1338</u>	City/State/Zip	<u>Madison, WI 53717-1338</u>	G											
Phone	<u>(608) 836-1500</u>	Phone	<u>(608) 836-1500</u>	H											
Fax		Fax		I											
e-Mail Address	<u>awmiller@gfnet.com</u>	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PW-16	<u>9-21-20</u>	<u>16:30</u>	<u>GW</u>	<u>HCl</u>	<u>3</u>	X										
2	<u>Trip Blank</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>2</u>	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <u>Chelsea Payne</u>		Shipment Method <u>FedEx</u>		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <u>Ch Payne</u>	Date: <u>9-21-20</u>	Time: <u>18:00</u>	Received by: <u>FedEx</u>	Notes:							
Relinquished by: <u>FedEx</u>	Date: <u>9/22/20</u>	Time: <u>1030</u>	Received by (Laboratory): <u>[Signature]</u>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory): <u>DES</u>	Date: <u>9/22/20</u>	Time: <u>1615</u>	Checked by (Laboratory): <u>EB</u>	<u>IRI</u>	<u>2.2°C</u>	<input type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/> Level III Std QC/Raw Data				<input type="checkbox"/> TRRP Level IV			
				<input type="checkbox"/> Level IV SW846/CLP							
				<input type="checkbox"/> Other							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Sample Receipt Checklist

Client Name: **GANNETFLEMING - WI**

Date/Time Received: **22-Sep-20 10:30**

Work Order: **20091872**

Received by: **DS**

Checklist completed by Diane Shaw 22-Sep-20
eSignature Date

Reviewed by: Eheland Bramworth 22-Sep-20
eSignature Date

Matrices: Groundwater

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): 2.2/2.2 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 9/22/2020 4:22:57 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: