



Field & Technical Services

200 Third Avenue ♦ Carnegie, PA 15106 ♦ Phone: 412-429-2694 ♦ Fax: 412-279-4512

December 11, 2019

Mr. John Sager
Wisconsin Department of Natural Resources
1701 N. 4th Street
Superior, WI 54880

**RE: Second Semi-Annual 2019 RCRA Groundwater Monitoring Results
Former Koppers Inc. Superior, Wisconsin Facility
WID 006 179 493**

Dear Mr. Sager:

On behalf of Beazer East, Inc. (Beazer), Field & Technical Services, LLC (FTS) is submitting to the Wisconsin Department of Natural Resources (WDNR) the Second Semi-Annual 2019 Resource Conservation and Recovery Act (RCRA) Groundwater Monitoring Results for the referenced facility. Appendix A includes one copy of the groundwater monitoring data certification for the subject groundwater monitoring event.

BACKGROUND

Monitoring wells in the vicinity of the closed surface impoundments were sampled and analyzed in accordance with the following documents:

- The Conditional Closure and Long-Term Care Plan Approval (WDNR, October 1, 1987);
- Long-Term Care Plan Approval Modification (October 29, 2002);
- Groundwater Monitoring Sampling and Analysis Plan (April 2002); and
- Wisconsin Administrative Code Chapter NR 664 subchapter (F) (formerly NR 635).

The wells that comprise the currently approved RCRA monitoring well network for the closed surface impoundments are as follows:

W-04AR2	W-06A	W-06C	W-10AR2	W-12A
W-12CR	W-28C	W-30A	W-30C	

Groundwater samples were collected and analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) from monitoring wells W-04AR2, W-06A, W-06C, W-10AR2, W-12A, W-12CR, W-28C, W-30A, and W-30C during the second semi-annual 2019 event.

In addition to these wells, a groundwater sample was collected and analyzed for SVOCs from monitoring well W-18D in conjunction with this monitoring event. Well W-18D is not a required component of the approved monitoring program, but was sampled at Beazer's discretion above and beyond the requirements of the program.

The locations of the wells included in the groundwater monitoring program are shown on Figure B-1, provided in Appendix B. The subject sampling event was conducted from October 15, 2019 through October 17, 2019. The sampling effort was led by Mr. Ben Trask, FTS Field Technician.

In accordance with the documents listed above, the following items are included in this report:

- One signed copy of the Groundwater Monitoring Data Certification Statement (Appendix A);
- Well location map (Appendix B);
- Summary of detected constituents and Preventive Action Limit (PAL), Enforcement Standard (ES), and Maximum Contaminant Level (MCL) exceedances (Table 1 of Appendix C);
- Summary of analytical data (Table 2 of Appendix C);
- Data Evaluation Summary (Appendix D);
- A hard copy and an electronic version of the laboratory analytical data, including trip blank, equipment blank, and field duplicate results (enclosed CD) (Appendix E); and
- An electronic version of the ASCII formatted data (enclosed CD) (Appendix F).

SUMMARY OF ANALYTICAL RESULTS

The detected constituents are summarized and compared to the PALs, ESs, and MCLs in Table 1 of Appendix C. Table 2 in Appendix C summarizes all laboratory analytical data. As indicated in Table 1 of Appendix C, exceedances of the PALs, ESs, and MCLs were noted for the following parameters and wells:

Parameter	Regulatory Standard (ug/L)	Wells
MCL Exceedance		
Benzene	5	W-10AR2
Benzo(a)pyrene	0.2	W-04AR2
ES Exceedance		
Benzene	5	W-10AR2
Benzo(a)pyrene	0.2	W-04AR2
Benzo(b)fluoranthene	0.2	W-04AR2
Chrysene	0.2	W-04AR2
PAL Exceedance		
Benzene	0.5	W-10AR2, W-30A
Naphthalene	10	W-30A
Benzo(a)pyrene	0.02	W-04AR2
Benzo(b)fluoranthene	0.02	W-04AR2, W-30A
Chrysene	0.02	W-04AR2

Based on these results, three wells (W-04AR2, W-10AR2, and W-30A) had concentrations of one or more constituents above a regulatory standard. The Groundwater Monitoring Data Certification form, provided as Appendix A, indicates that some of the data associated with the second semi-annual 2019 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the second semi-annual 2019 sampling event (Appendix D) indicated that certain data required qualification. However, the overall data quality was found to be acceptable.

In general, the groundwater standard exceedances should continue to be viewed in light of the ongoing Site-wide RCRA corrective action program and the approved natural attenuation remedy for groundwater. Therefore, in reviewing the second semi-annual 2019 data in reference to NR 140.24 and NR 140.26, no additional action beyond continued monitoring is necessary.

If you should have any questions regarding this correspondence, please do not hesitate to contact Ms. Jane Patacity of Beazer at 412-208-8813 or Ms. Angela Gatchie of FTS at 412-428-9411.

Sincerely,

Field & Technical Services LLC



Angela Gatchie
Project Scientist

Attachments (Original Report and electronic copy)

cc: J. Patacity, Beazer (electronic copy only)
L. Paul, Koppers (electronic copy only)
D. Bessingpas, ARCADIS (.pdf transmittal)
D. Panofsky, WDNR
GEMS Database, WDNR
T. Peterson, TRP Properties, LLC

APPENDIX A
GROUNDWATER MONITORING DATA CERTIFICATION



Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats.

When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Field & Technical Services, LLC

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Angela Gatchie Phone: (412) 428-9411

E-mail: agatchie.2006@f-ts.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
Former Koppers, Inc. Facility	03046		October 15 - October 17, 2019

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

October 2019

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) |

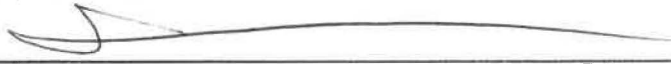
Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Jane Patarcity Manager, Environmental Svcs. (412) 208-8813
Facility Representative Name (Print) Title (Area Code) Telephone No.

 Date 12-11-19

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____










EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

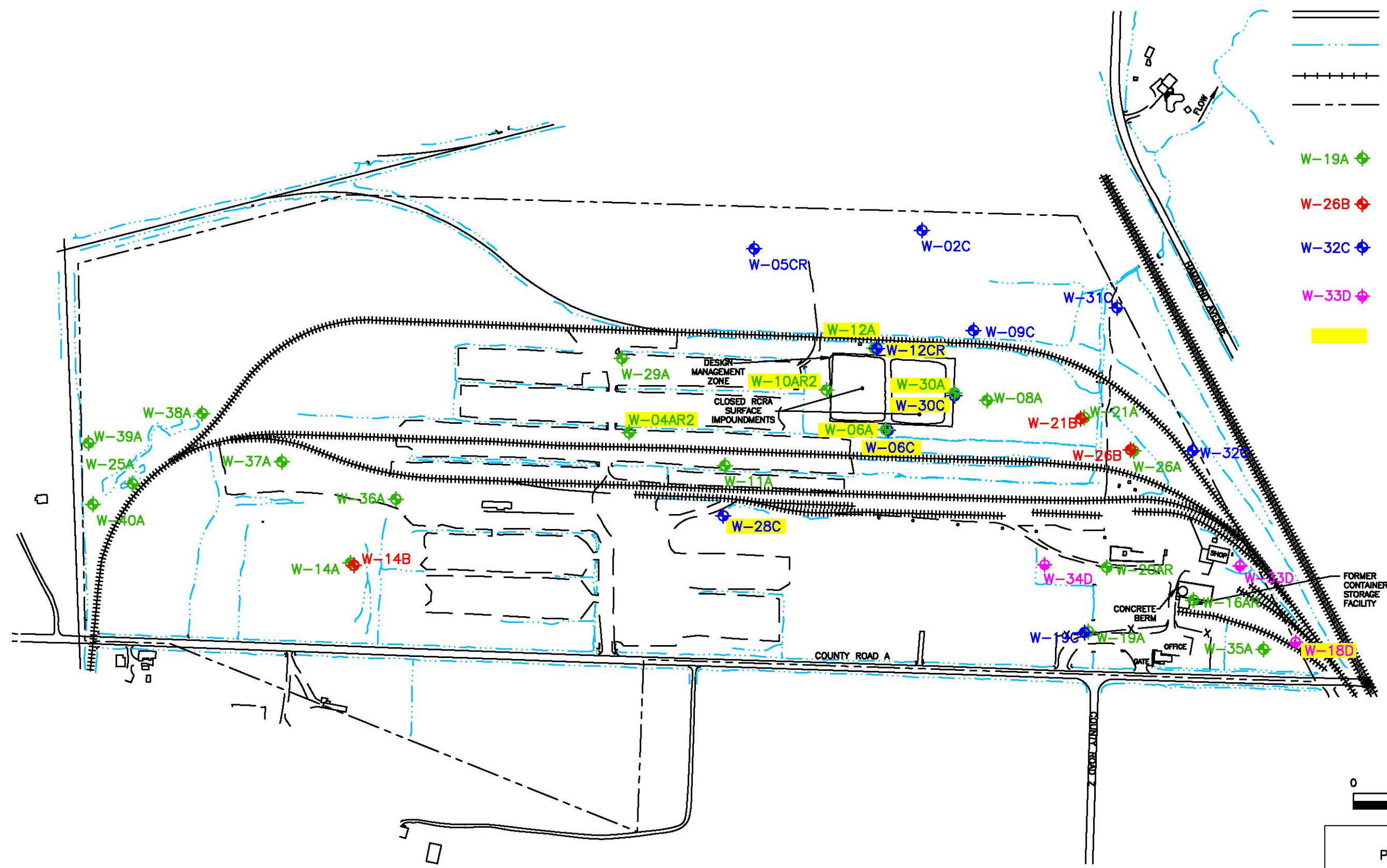
APPENDIX B
WELL LOCATION MAP






LEGEND

-  ROAD
-  STREAM OR DITCH
-  RAILROAD TRACKS
-  APPROXIMATE PROPERTY BOUNDARY
-  W-19A A ZONE GROUNDWATER MONITORING WELL
-  W-26B B ZONE GROUNDWATER MONITORING WELL
-  W-32C C ZONE GROUNDWATER MONITORING WELL
-  W-33D BEDROCK ZONE GROUNDWATER MONITORING WELL
-  SAMPLED WELL LOCATION



BEAZER EAST, INC. PITTSBURGH, PENNSYLVANIA		 FTS	FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106	
DRWN: KC	DATE: 04/30/19		FORMER KOPPERS INC. FACILITY SUPERIOR, WISCONSIN	
CHKD: AMG	DATE: 04/30/19		WELL LOCATIONS	PROJECT NO: 04055619 DRAWING NUMBER
APPD: JBZ	DATE: 08/11/19		FIGURE B-1	
SCALE: AS SHOWN				
ISSUE DATE:				

REFERENCE: WISCONSIN STATE PLANNER COORDINATE SYSTEM.
NOTE: MONITORING WELL W-04AR WAS NOT SAMPLED DURING THIS EVENT DUE TO INNER CASING DAMAGE.

REV #	DATE	DESCRIPTION	APPD
1			
2			

a:\projects\beazer_projects\superior\2019\annual_2019\figure_b-1.dwg Last Saved By: Kchinnello 4/30/2019 8:07 AM Plotted By: Kendra L. Chinnello 4/30/2019 8:07 AM Scale: 1:1

APPENDIX C

TABLES



Table 1
Summary of Detected Constituents
Second Semi-Annual 2019 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
8270D LL					
W-10AR2	1-Methylnaphthalene	28 J	NA	NA	NA
W-12CR	2,4,6-Trichlorophenol	3.4 J	NA	NA	NA
W-12CR	2-Chloronaphthalene	9.9	NA	NA	NA
W-10AR2	Acenaphthene	91 J	NA	NA	NA
W-30A	Acenaphthene	14 J	NA	NA	NA
W-10AR2	Acenaphthylene	1.9 J	NA	NA	NA
W-04AR2	Anthracene	2.4 J	600	3000	NA
W-10AR2	Anthracene	0.73 J	600	3000	NA
W-30A	Anthracene	0.61 J	600	3000	NA
W-04AR2	Benzo(a)anthracene	0.59 J	NA	NA	NA
W-10AR2	Benzo(a)anthracene	0.13 J	NA	NA	NA
W-30A	Benzo(a)anthracene	0.11 J	NA	NA	NA
W-04AR2	Benzo(a)pyrene	0.25 J	0.02	0.2	0.2
W-04AR2	Benzo(b)fluoranthene	0.5 J	0.02	0.2	NA
W-30A	Benzo(b)fluoranthene	0.069 J	0.02	0.2	NA
W-04AR2	Chrysene	0.77 J	0.02	0.2	NA
W-04AR2	Benzo(k)fluoranthene	0.19 J	NA	NA	NA
W-10AR2	Dibenzofuran	12 J	NA	NA	NA
W-30A	Dibenzofuran	2.9 J	NA	NA	NA
W-04AR2	Fluoranthene	2.2 J	80	400	NA
W-10AR2	Fluoranthene	2 J	80	400	NA
W-30A	Fluoranthene	0.99 J	80	400	NA
W-10AR2	Fluorene	19 J	80	400	NA
W-30A	Fluorene	1.5 J	80	400	NA
W-04AR2	Indeno(1,2,3-cd)pyrene	0.1 J	NA	NA	NA
W-04AR2	Phenanthrene	0.85 J	NA	NA	NA
W-10AR2	Phenanthrene	0.36 J	NA	NA	NA
W-04AR2	Pyrene	1.4 J	50	250	NA
W-10AR2	Pyrene	1.2 J	50	250	NA
W-30A	Pyrene	0.65 J	50	250	NA
8260C					
W-10AR2	1,2,4-Trimethylbenzene	9.4	96*	480*	NA
W-30A	1,2,4-Trimethylbenzene	3.2	96*	480*	NA
W-10AR2	Benzene	22	0.5	5	5
W-30A	Benzene	2.4	0.5	5	5
W-10AR2	Ethylbenzene	46	140	700	700
W-30A	Ethylbenzene	10	140	700	700
W-30A	Naphthalene	91	10	100	NA
W-10AR2	Toluene	2.7	160	800	1000
W-30A	Toluene	1.1	160	800	1000
W-10AR2	Xylene, Meta & Para	3.3	400**	2000**	10000**
W-30A	Xylene, Meta & Para	4.1	400**	2000**	10000**
W-10AR2	Xylene, Ortho	19	400**	2000**	10000**
W-30A	Xylene, Ortho	3.2	400**	2000**	10000**

Notes:

- Indicates the detected value exceeds one or more specified standards.

PAL - Preventative Action Limit

MCL - Maximum Contaminant Levels for drinking water

ES - Enforcement Standard

NA - Not available

J - Estimated

* - Total trimethylbenzene standard

** - Total xylene standard

Table 2
Analytical Summary - Second Semi-Annual 2019 Groundwater Data
Second Semi-Annual 2019 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 10/17/2019	W-06A 10/16/2019	W-06C 10/16/2019	W-10AR2 10/17/2019	W-12A 10/16/2019	W-12CR 10/16/2019	W-18D 10/16/2019	W-28C 10/15/2019	W-30A 10/17/2019	W-30C 10/16/2019	W-30C-DUP 10/16/2019	Equipment Blank 10/15/2019	Equipment Blank 10/16/2019	Equipment Blank 10/17/2019	Trip Blank 10/15/2019	Trip Blank 10/16/2019	Trip Blank 10/17/2019
8260C																		
1,1,1-TRICHLOROETHANE	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	NA	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2,4-TRIMETHYLBENZENE	UG/L	0.75 U	0.75 U	0.75 U	9.4	0.75 U	0.75 U	NA	0.75 U	3.2	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,3,5-TRIMETHYLBENZENE	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	NA	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
BENZENE	UG/L	0.41 U	0.41 U	0.41 U	22	0.41 U	0.41 U	NA	0.41 U	2.4	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CHLOROMETHANE	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	NA	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ETHYLBENZENE	UG/L	0.74 U	0.74 U	0.74 U	46	0.74 U	0.74 U	NA	0.74 U	10	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
METHYL(TERT)BUTYL ETHER	UG/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	NA	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
NAPHTHALENE	UG/L	0.76 U	0.43 U	0.43 U	2.3 U	0.43 U	0.43 U	NA	0.43 U	91	0.43 U	0.43 U	0.43 U	0.43 U	0.83 J	0.43 U	0.43 U	0.43 U
N-BUTYLBENZENE	UG/L	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	NA	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
N-PROPYLBENZENE	UG/L	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
STYRENE	UG/L	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	NA	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U
TOLUENE	UG/L	0.51 U	0.51 U	0.51 U	2.7	0.51 U	0.51 U	NA	0.51 U	1.1	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
XYLENE, META & PARA	UG/L	0.66 U	0.66 U	0.66 U	3.3	0.66 U	0.66 U	NA	0.66 U	4.1	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
O-XYLENE	UG/L	0.76 U	0.76 U	0.76 U	19	0.76 U	0.76 U	NA	0.76 U	3.2	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
8270D LL																		
1,2,4-TRICHLOROBENZENE	UG/L	0.31 UJ	0.3 U	0.29 U	0.31 UJ	0.29 U	0.3 U	0.3 U	0.29 UJ	0.3 UJ	0.29 U	0.29 U	0.32 U	0.3 U	0.29 U	NA	NA	NA
1,2-DICHLOROBENZENE	UG/L	0.3 UJ	0.29 U	0.28 U	0.3 UJ	0.28 U	0.29 U	0.29 U	0.28 UJ	0.29 UJ	0.28 U	0.28 U	0.31 U	0.29 U	0.28 U	NA	NA	NA
1,3-DICHLOROBENZENE	UG/L	0.26 UJ	0.25 U	0.24 U	0.25 UJ	0.24 U	0.25 U	0.25 U	0.24 UJ	0.25 UJ	0.25 U	0.25 U	0.27 U	0.25 U	0.24 U	NA	NA	NA
1,4-DICHLOROBENZENE	UG/L	0.28 UJ	0.27 U	0.26 U	0.27 UJ	0.26 U	0.27 U	0.27 U	0.26 UJ	0.27 UJ	0.26 U	0.27 U	0.29 U	0.27 U	0.26 U	NA	NA	NA
1-METHYLNAPHTHALENE	UG/L	0.51 UJ	0.5 U	0.48 U	28 J	0.48 U	0.5 U	0.5 U	0.48 UJ	0.51 UJ	0.49 U	0.49 U	0.54 U	0.51 U	0.49 U	NA	NA	NA
2,3,4,6-TETRACHLOROPHENOL	UG/L	1.5 UJ	1.5 U	1.5 U	1.5 UJ	1.4 U	1.5 U	1.5 U	1.4 UJ	1.5 UJ	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U	NA	NA	NA
2,3,5,6-TETRACHLOROPHENOL	UG/L	2.6 UJ	2.5 U	2.4 U	2.5 UJ	2.4 U	2.5 U	2.5 U	2.4 UJ	2.5 UJ	2.5 U	2.5 U	2.7 U	2.5 U	2.4 U	NA	NA	NA
2,4,5-TRICHLOROPHENOL	UG/L	2.3 UJ	2.3 U	2.2 U	2.3 UJ	2.2 U	2.3 U	2.3 U	2.2 UJ	2.3 UJ	2.2 U	2.2 U	2.5 U	2.3 U	2.2 U	NA	NA	NA
2,4,6-TRICHLOROPHENOL	UG/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 U	3.4 J	1.1 U	1 UJ	1.1 UJ	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	NA	NA	NA
2,4-DICHLOROPHENOL	UG/L	2.3 UJ	2.3 U	2.2 U	2.3 UJ	2.2 U	2.3 U	2.3 U	2.2 UJ	2.3 UJ	2.2 U	2.2 U	2.5 U	2.3 U	2.2 U	NA	NA	NA
2,4-DIMETHYLPHENOL	UG/L	3.4 UJ	3.3 U	3.2 U	3.4 UJ	3.2 U	3.3 U	3.3 U	3.2 UJ	3.4 UJ	3.3 U	3.3 U	3.6 U	3.4 U	3.2 U	NA	NA	NA
2,4-DINITROPHENOL	UG/L	7.6 UJ	7.4 U	7.1 U	7.6 UJ	7.1 U	7.5 U	7.4 U	7.1 UJ	7.5 UJ	7.3 U	7.3 U	8 U	7.5 U	7.2 U	NA	NA	NA
2,4-DINITROTOLUENE	UG/L	0.31 UJ	0.3 U	0.29 U	0.31 UJ	0.29 U	0.3 U	0.3 U	0.29 UJ	0.3 UJ	0.29 U	0.29 U	0.32 U	0.3 U	0.29 U	NA	NA	NA
2,6-DINITROTOLUENE	UG/L	0.12 UJ	0.12 U	0.12 U	0.12 UJ	0.11 U	0.12 U	0.12 U	0.11 UJ	0.12 UJ	0.12 U	0.12 U	0.13 U	0.12 U	0.12 U	NA	NA	NA
2-CHLORONAPHTHALENE	UG/L	0.35 UJ	0.34 U	0.33 U	0.35 UJ	0.33 U	9.9	0.34 U	0.32 UJ	0.34 UJ	0.33 U	0.33 U	0.37 U	0.34 U	0.33 U	NA	NA	NA
2-CHLOROPHENOL	UG/L	0.82 UJ	0.8 U	0.77 U	0.81 UJ	0.77 U	0.8 U	0.8 U	0.76 UJ	0.81 UJ	0.79 U	0.79 U	0.86 U	0.81 U	0.78 U	NA	NA	NA
2-METHYLNAPHTHALENE	UG/L	0.13 UJ	0.13 U	0.12 U	0.13 UJ	0.12 U	0.13 U	0.13 U	0.12 UJ	0.13 UJ	0.13 U	0.13 U	0.14 U	0.13 U	0.13 U	NA	NA	NA
2-METHYLPHENOL	UG/L	0.32 UJ	0.31 U	0.3 U	0.32 UJ	0.3 U	0.31 U	0.31 U	0.29 UJ	0.31 UJ	0.3 U	0.3 U	0.33 U	0.31 U	0.3 U	NA	NA	NA
2-NITROANILINE	UG/L	1.1 UJ	1.1 U	1 U	1.1 UJ	1 U	1.1 U	1.1 U	1 UJ	1.1 UJ	1.1 U	1.1 U	1.2 U	1.1 U	1 U	NA	NA	NA
2-NITROPHENOL	UG/L	2.2 UJ	2.1 U	2.1 U	2.2 UJ	2 U	2.1 U	2.1 U	2 UJ	2.2 UJ	2.1 U	2.1 U	2.3 U	2.2 U	2.1 U	NA	NA	NA
3,3'-DICHLOROBENZIDINE	UG/L	0.96 UJ	0.94 U	0.9 U	0.96 UJ	0.9 U	0.94 U	0.94 U	0.89 UJ	0.95 UJ	0.92 U	0.92 U	1 U	0.95 U	0.91 U	NA	NA	NA
3-NITROANILINE	UG/L	2.3 UJ	2.3 U	2.2 U	2.3 UJ	2.2 U	2.3 U	2.3 U	2.2 UJ	2.3 UJ	2.2 U	2.2 U	2.5 U	2.3 U	2.2 U	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	UG/L	5 UJ	4.9 U	4.7 U	5 UJ	4.7 U	4.9 U	4.9 U	4.7 UJ	5 UJ	4.8 U	4.8 U	5.3 U	5 U	4.8 U	NA	NA	NA
4-BROMOPHENYL PHENYLETHER	UG/L	0.93 UJ	0.91 U	0.87 U	0.93 UJ	0.87 U	0.91 U	0.91 U	0.87 UJ	0.92 UJ	0.89 U	0.89 U	0.98 U	0.92 U	0.88 U	NA	NA	NA

Table 2
Analytical Summary - Second Semi-Annual 2019 Groundwater Data
Second Semi-Annual 2019 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 10/17/2019	W-06A 10/16/2019	W-06C 10/16/2019	W-10AR2 10/17/2019	W-12A 10/16/2019	W-12CR 10/16/2019	W-18D 10/16/2019	W-28C 10/15/2019	W-30A 10/17/2019	W-30C 10/16/2019	W-30C-DUP 10/16/2019	Equipment Blank 10/15/2019	Equipment Blank 10/16/2019	Equipment Blank 10/17/2019	Trip Blank 10/15/2019	Trip Blank 10/16/2019	Trip Blank 10/17/2019
4-CHLORO-3-METHYLPHENOL	UG/L	2.2 UJ	2.2 U	2.1 U	2.2 UJ	2.1 U	2.2 U	2.2 U	2.1 UJ	2.2 UJ	2.2 U	2.2 U	2.4 U	2.2 U	2.1 U	NA	NA	NA
4-CHLOROANILINE	UG/L	2.1 UJ	2.1 U	2 U	2.1 UJ	2 U	2.1 U	2.1 U	2 UJ	2.1 UJ	2.1 U	2.1 U	2.3 U	2.1 U	2 U	NA	NA	NA
4-CHLOROPHENYLPHENYL-ETHER	UG/L	0.83 UJ	0.81 U	0.78 U	0.82 UJ	0.78 U	0.81 U	0.81 U	0.77 UJ	0.82 UJ	0.79 U	0.8 U	0.87 U	0.82 U	0.79 U	NA	NA	NA
4-METHYLPHENOL	UG/L	0.45 UJ	0.44 U	0.42 U	0.45 UJ	0.42 U	0.44 U	0.44 U	0.42 UJ	0.45 UJ	0.43 U	0.43 U	0.47 U	0.44 U	0.43 U	NA	NA	NA
4-NITROANILINE	UG/L	4 UJ	3.9 U	3.8 U	4 UJ	3.8 U	3.9 U	3.9 U	3.7 UJ	4 UJ	3.9 U	3.9 U	4.2 U	4 U	3.8 U	NA	NA	NA
4-NITROPHENOL	UG/L	2.4 UJ	2.3 U	2.2 U	2.4 UJ	2.2 U	2.3 U	2.3 U	2.2 UJ	2.4 UJ	2.3 U	2.3 U	2.5 U	2.4 U	2.3 U	NA	NA	NA
ACENAPHTHENE	UG/L	0.37 UJ	0.36 U	0.35 U	91 J	0.34 U	0.36 U	0.36 U	0.34 UJ	14 J	0.35 U	0.35 U	0.39 U	0.36 U	0.35 U	NA	NA	NA
ACENAPHTHYLENE	UG/L	0.33 UJ	0.32 U	0.31 U	1.9 J	0.31 U	0.32 U	0.32 U	0.3 UJ	0.32 UJ	0.31 U	0.31 U	0.35 U	0.32 U	0.31 U	NA	NA	NA
ANTHRACENE	UG/L	2.4 J	0.32 U	0.31 U	0.73 J	0.31 U	0.32 U	0.32 U	0.3 UJ	0.61 J	0.31 U	0.31 U	0.35 U	0.32 U	0.31 U	NA	NA	NA
BENZO (A) ANTHRACENE	UG/L	0.59 J	0.044 U	0.042 U	0.13 J	0.042 U	0.044 U	0.044 U	0.042 UJ	0.11 J	0.043 U	0.043 U	0.047 U	0.044 U	0.043 U	NA	NA	NA
BENZO (A) PYRENE	UG/L	0.25 J	0.056 U	0.054 U	0.057 UJ	0.054 U	0.056 U	0.056 U	0.053 UJ	0.057 UJ	0.055 U	0.055 U	0.06 U	0.057 U	0.054 U	NA	NA	NA
BENZO (B) FLUORANTHENE	UG/L	0.5 J	0.058 U	0.056 U	0.059 UJ	0.056 U	0.058 U	0.058 U	0.055 UJ	0.069 J	0.057 U	0.057 U	0.063 U	0.059 U	0.056 U	NA	NA	NA
BENZO (G,H,I) PERYLENE	UG/L	0.43 UJ	0.42 U	0.4 U	0.43 UJ	0.4 U	0.42 U	0.42 U	0.4 UJ	0.43 UJ	0.41 U	0.41 U	0.45 U	0.42 U	0.41 U	NA	NA	NA
BENZO (K) FLUORANTHENE	UG/L	0.19 J	0.074 U	0.071 U	0.075 UJ	0.071 U	0.074 U	0.074 U	0.07 UJ	0.075 UJ	0.073 U	0.073 U	0.08 U	0.075 U	0.072 U	NA	NA	NA
BENZOIC ACID	UG/L	4.7 UJ	4.5 U	12 U	4.6 UJ	12 U	12 U	12 U	4.3 UJ	4.6 UJ	12 U	12 U	4.9 U	12 J	4.4 U	NA	NA	NA
BENZYL ALCOHOL	UG/L	3.1 UJ	3 U	2.9 U	3.1 UJ	2.9 U	3.1 U	3 U	2.9 UJ	3.1 UJ	3 U	3 U	3.3 U	3.1 U	3 U	NA	NA	NA
BIS (2-CHLOROETHOXY)- METHANE	UG/L	0.31 UJ	0.3 U	0.29 U	0.31 UJ	0.29 U	0.3 U	0.29 U	0.29 UJ	0.3 UJ	0.29 U	0.29 U	0.32 U	0.3 U	0.29 U	NA	NA	NA
BIS (2-CHLOROETHYL) ETHER	UG/L	0.36 UJ	0.35 U	0.34 U	0.36 UJ	0.34 U	0.35 U	0.35 U	0.33 UJ	0.36 UJ	0.34 U	0.34 U	0.38 U	0.35 U	0.34 U	NA	NA	NA
BIS (2-CHLOROISOPROPYL)-ETHER	UG/L	0.31 UJ	0.3 U	0.29 U	0.31 UJ	0.29 U	0.3 U	0.3 U	0.29 UJ	0.3 UJ	0.29 U	0.29 U	0.32 U	0.3 U	0.29 U	NA	NA	NA
BIS (2-ETHYLHEXYL)- PHTHALATE	UG/L	2.5 UJ	2.4 U	2.3 U	2.5 UJ	2.3 U	2.4 U	2.4 U	2.3 UJ	2.5 UJ	2.4 U	2.4 U	2.6 U	2.5 U	2.4 U	NA	NA	NA
BUTYL BENZYL PHTHALATE	UG/L	0.28 UJ	0.27 U	0.26 U	0.27 UJ	0.26 U	0.27 U	0.27 U	0.26 UJ	0.27 UJ	0.26 U	0.27 U	0.29 U	0.27 U	0.26 U	NA	NA	NA
CHRYSENE	UG/L	0.77 J	0.14 U	0.13 U	0.14 UJ	0.13 U	0.14 U	0.14 U	0.13 UJ	0.14 UJ	0.14 U	0.14 U	0.15 U	0.14 U	0.14 U	NA	NA	NA
DIBENZO (A,H) ANTHRACENE	UG/L	0.065 UJ	0.064 U	0.061 U	0.065 UJ	0.061 U	0.064 U	0.064 U	0.061 UJ	0.065 UJ	0.063 U	0.063 U	0.069 U	0.065 U	0.062 U	NA	NA	NA
DIBENZOFURAN	UG/L	0.36 UJ	0.35 U	0.34 U	12 J	0.34 U	0.35 U	0.35 U	0.33 UJ	2.9 J	0.34 U	0.34 U	0.38 U	0.35 U	0.34 U	NA	NA	NA
DIETHYLPHTHALATE	UG/L	0.45 UJ	0.44 U	0.42 U	0.45 UJ	0.42 U	0.44 U	0.44 U	0.42 UJ	0.45 UJ	0.43 U	0.43 U	0.47 U	0.44 U	0.43 U	NA	NA	NA
DIMETHYLPHTHALATE	UG/L	0.39 UJ	0.38 U	0.36 U	0.39 UJ	0.36 U	0.38 U	0.38 U	0.36 UJ	0.39 UJ	0.37 U	0.37 U	0.41 U	0.38 U	0.37 U	NA	NA	NA
DI-N-BUTYLPHTHALATE	UG/L	0.82 UJ	0.8 U	0.77 U	0.81 UJ	0.77 U	0.8 U	0.8 U	0.76 UJ	0.81 UJ	0.79 U	0.79 U	0.86 U	0.81 U	0.78 U	NA	NA	NA
DI-N-OCTYLPHTHALATE	UG/L	2.5 UJ	2.5 U	2.4 U	2.5 UJ	2.4 U	2.5 U	2.5 U	2.3 UJ	2.5 UJ	2.4 U	2.4 U	2.7 U	2.5 U	2.4 U	NA	NA	NA
FLUORANTHENE	UG/L	2.2 J	0.32 U	0.31 U	2 J	0.31 U	0.32 U	0.32 U	0.3 UJ	0.99 J	0.31 U	0.31 U	0.35 U	0.32 U	0.31 U	NA	NA	NA
FLUORENE	UG/L	0.39 UJ	0.38 U	0.36 U	19 J	0.36 U	0.38 U	0.38 U	0.36 UJ	1.5 J	0.37 U	0.37 U	0.41 U	0.38 U	0.37 U	NA	NA	NA
HEXACHLORO BENZENE	UG/L	0.14 UJ	0.14 U	0.13 U	0.14 UJ	0.13 U	0.14 U	0.14 U	0.13 UJ	0.14 UJ	0.14 U	0.14 U	0.15 U	0.14 U	0.14 U	NA	NA	NA
HEXACHLOROBUTADIENE	UG/L	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	UG/L	3.5 UJ	3.4 U	3.3 U	3.5 UJ	3.3 U	3.5 U	3.4 U	3.3 UJ	3.5 UJ	3.4 U	3.4 U	3.7 U	3.5 U	3.3 U	NA	NA	NA
HEXACHLOROETHANE	UG/L	0.99 UJ	0.97 U	0.93 U	0.99 UJ	0.93 U	0.97 U	0.97 U	0.92 UJ	0.98 UJ	0.95 U	0.95 U	1 U	0.98 U	0.94 U	NA	NA	NA
INDENO (1,2,3-CD) PYRENE	UG/L	0.1 J	0.084 U	0.081 U	0.085 UJ	0.08 U	0.084 U	0.084 U	0.08 UJ	0.085 UJ	0.082 U	0.083 U	0.091 U	0.085 U	0.081 U	NA	NA	NA
ISOPHORONE	UG/L	0.3 UJ	0.29 U	0.28 U	0.3 UJ	0.28 U	0.29 U	0.29 U	0.28 UJ	0.29 UJ	0.28 U	0.28 U	0.31 U	0.29 U	0.28 U	NA	NA	NA
NAPHTHALENE	UG/L	NA	NA	NA	NA	NA	NA	0.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	UG/L	0.46 UJ	0.45 U	0.43 U	0.46 UJ	0.43 U	0.45 U	0.45 U	0.43 UJ	0.46 UJ	0.44 U	0.44 U	0.49 U	0.45 U	0.44 U	NA	NA	NA
N-NITROSODI-N-PROPYLAMINE	UG/L	0.14 UJ	0.14 U	0.13 U	0.14 UJ	0.13 U	0.14 U	0.14 U	0.13 UJ	0.14 UJ	0.14 U	0.14 U	0.15 U	0.14 U	0.14 U	NA	NA	NA
N-NITROSO-DI-PHENYLAMINE	UG/L	0.35 UJ	0.34 U	0.33 U	0.35 UJ	0.33 U	0.34 U	0.34 U	0.32 UJ	0.34 UJ	0.33 U	0.33 U	0.37 U	0.34 U	0.33 U	NA	NA	NA
PENTACHLOROPHENOL	UG/L	1.7 U	0.34 U	0.34 U	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	0.34 U	0.34 U	0.52 U	0.34 U	0.34 U	NA	NA	NA
PHENANTHRENE	UG/L	0.85 J	0.35 U	0.34 U	0.36 J	0.34 U	0.35 U	0.35 U	0.33 UJ	0.36 UJ	0.34 U	0.34 U	0.38 U	0.35 U	0.34 U	NA	NA	NA
PHENOL	UG/L	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.34 U	0.36 U	0.36 U	0.34 UJ	0.37 UJ	0.35 U	0.35 U	0.39 U	0.36 U	0.35 U	NA	NA	NA
PYRENE	UG/L	1.4 J	0.48 U	0.46 U	1.2 J	0.46 U	0.48 U	0.48 U	0.46 UJ	0.65 J	0.47 U	0.47 U	0.52 U	0.49 U	0.47 U	NA	NA	NA

Notes:
 Bold values represent detections.
 DUP indicates duplicate sample.
 U indicates compound was not detected.
 J indicates an estimated value.
 NA indicates not analyzed.

APPENDIX D
DATA EVALUATION SUMMARY



FTS, LLC

DATE: November 19, 2019

FROM: Kendra Chintella

SUBJECT: Superior GW

SAMPLE DELIVERY GROUP (SDG): 480-161133-1

SAMPLES: SUPE-TB-03-101719, SUPE-W-30A-101719, SUPE-EB-03-101719, SUPE-W-10AR2-101719, SUPE-W-04AR2-101719

ANALYSES: Method 8260C (VOCs), 8270D/8270D LL (SVOCs)

LABORATORY: Eurofins TestAmerica Laboratories, Buffalo, Chicago

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: SVOCs were extracted outside of hold time for W-30A, W-10AR2, and W-04AR2 and results in these samples were qualified as estimated, "J".
- Laboratory Blank Contamination
Noncompliance: None
- Field Blank Contamination
Noncompliance: Naphthalene was detected in the equipment blank. See attached page for details.
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: The LCS recovery of pyrene was above the recovery limits. The RPD of benzoic acid was above the recovery limits. No action was taken on this basis.

Field Blank Contamination:

The following analyte was detected in the aqueous equipment blank, SUPE-EB-03-101719, at the following concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Naphthalene	0.83 J ug/l	4.15 ug/l

An action level of 5X the maximum concentration was used to evaluate the sample data for field blank contamination. Associated samples with concentrations below the blank action level were qualified "U" for field blank contamination.

FTS, LLC

DATE: November 19, 2019

FROM: Kendra Chintella

SUBJECT: Superior GW

SAMPLE DELIVERY GROUP (SDG): 480-161258-1

SAMPLES: SUPE-TB-02-101619, SUPE-W-30C-101619, SUPE-W-06A-101619, SUPE-W-06C-101619, SUPE-W-12A-101619, SUPE-EB-02-101619, SUPE-W-12CR-101619, SUPE-W-18D-101619, SUPE-M-99A-101619(W-30C)

ANALYSES: Method 8260C (VOCs), 8270D/8270D LL (SVOCs)

LABORATORY: Eurofins TestAmerica Laboratories, Buffalo, Chicago

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: None
- Field Blank Contamination
Noncompliance: Benzoic acid was detected in the equipment blank. See attached page for details.
- Field Duplicate Precision
Noncompliance: See attached page for details.
- Surrogate Recoveries
Noncompliance: The surrogate recoveries of p-terphenyl-d14 and 2,4,6-tribromophenol were above the recovery limits in sample W-12CR. No action was taken on this basis.
- Laboratory Control Sample
Noncompliance: The LCS recovery of pyrene was above the recovery limits. No action was taken on this basis.

Field Blank Contamination:

The following analyte was detected in the aqueous equipment blank, SUPE-EB-02-101619, at the following concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Benzoic acid	12 J ug/l	60 ug/l

An action level of 5X the maximum concentration was used to evaluate the sample data for field blank contamination. Associated samples with concentrations below the blank action level were qualified "U" for field blank contamination.

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-30C	QUAL	M-99A	QUAL	RPD
Benzoic acid	12	J	12	J	0.00

FTS, LLC

DATE: November 19, 2019

FROM: Kendra Chintella

SUBJECT: Superior GW

SAMPLE DELIVERY GROUP (SDG): 480-161261-1

SAMPLES: SUPE-TB-01-101519, SUPE-W-28C-101519, SUPE-EB-01-101519

ANALYSES: Method 8260C (VOCs), 8270D/8270D LL (SVOCs)

LABORATORY: Eurofins TestAmerica Laboratories, Buffalo, Chicago

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: SVOCs were extracted outside of hold time for W-28C and results in this sample were qualified as estimated, "J".
- Laboratory Blank Contamination
Noncompliance: None
- Field Blank Contamination
Noncompliance: None
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: The LCS recoveries of 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, styrene, and pyrene were above the recovery limits. No action was taken on this basis.
- Matrix Spike/Matrix Spike Duplicate Sample
Noncompliance: The MS/MSD recoveries of VOCs and SVOCs were outside of the recovery limits. SVOC RPDs were above the recovery limits. No action was taken on this basis.

APPENDIX E
LABORATORY ANALYTICAL DATA
(C.D. AND PRINTOUT)



ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-161133-1

Client Project/Site: Superior, WI Semiannual Groundwater
Revision: 3

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
11/22/2019 11:23:25 AM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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www.testamericainc.com

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

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

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



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Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Job ID: 480-161133-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-161133-1

Revised : to remove PCP from full list

Revised: to correct formatter

Comments

No additional comments.

Receipt

The samples were received on 10/18/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-500429 recovered above the upper control limit for 1,1,1-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SUPE-TB-03-101719, SUPE-W-30A-101719, SUPE-EB-03-101719, SUPE-W-10AR2-101719 and SUPE-W-04AR2-101719.

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

GC/MS Semi VOA Buffalo

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 480-500349 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: SUPE-W-30A-101719, SUPE-EB-03-101719, SUPE-W-10AR2-101719 and SUPE-W-04AR2-101719.

Methods 8270D LL, : The following samples were diluted due to the nature of the sample matrix: SUPE-W-30A-101719, SUPE-W-10AR2-101719 and SUPE-W-04AR2-101719. Elevated reporting limits (RLs) are provided.

GC/MS Semi VOA Chicago

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-511959 had 1 analyte outside control limits: Pyrene. The associated LCSD was in control for this analyte. These results have been reported and qualified.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 500-511959 and analytical batch 500-512017 recovered outside control limits for Benzoic acid. The % recoveries were within limits.

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

Organic Prep Chicago

Method 3510C: (full list)

Heavy sample receipts in the Buffalo lab caused delays in login and shipping, as a result the SVOC full list samples, SUPE-W-30A-101719, SUPE-EB-03-101719, SUPE-W-10AR2-101719 and SUPE-W-04AR2-101719 were extracted one day outside of the recommended holding time;

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

Detection Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-TB-03-101719

Lab Sample ID: 480-161133-1

No Detections.

Client Sample ID: SUPE-W-30A-101719

Lab Sample ID: 480-161133-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.2		1.0	0.75	ug/L	1		8260C	Total/NA
Benzene	2.4		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	10		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.1		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	3.2		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	1.1		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	7.3		2.0	0.66	ug/L	1		8260C	Total/NA
Naphthalene - DL	91		2.0	0.86	ug/L	2		8260C	Total/NA
Acenaphthene	14	H	1.0	0.37	ug/L	1		8270D	Total/NA
Anthracene	0.61	J H	1.0	0.32	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.069	J H	0.20	0.059	ug/L	1		8270D	Total/NA
Dibenzofuran	2.9	H	2.0	0.36	ug/L	1		8270D	Total/NA
Fluoranthene	0.99	J H	1.0	0.32	ug/L	1		8270D	Total/NA
Fluorene	1.5	H	1.0	0.39	ug/L	1		8270D	Total/NA
Pyrene	0.65	J H *	1.0	0.49	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.11	J H	0.20	0.045	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-EB-03-101719

Lab Sample ID: 480-161133-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.83	J	1.0	0.43	ug/L	1		8260C	Total/NA

Client Sample ID: SUPE-W-10AR2-101719

Lab Sample ID: 480-161133-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	9.4		1.0	0.75	ug/L	1		8260C	Total/NA
Benzene	22		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	46		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.3		2.0	0.66	ug/L	1		8260C	Total/NA
Naphthalene	2.3		1.0	0.43	ug/L	1		8260C	Total/NA
o-Xylene	19		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	2.7		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	22		2.0	0.66	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	28	H	2.0	0.51	ug/L	1		8270D	Total/NA
Acenaphthylene	1.9	H	1.0	0.33	ug/L	1		8270D	Total/NA
Anthracene	0.73	J H	1.0	0.33	ug/L	1		8270D	Total/NA
Dibenzofuran	12	H	2.0	0.36	ug/L	1		8270D	Total/NA
Fluoranthene	2.0	H	1.0	0.33	ug/L	1		8270D	Total/NA
Fluorene	19	H	1.0	0.39	ug/L	1		8270D	Total/NA
Pyrene	1.2	H *	1.0	0.49	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.13	J H	0.20	0.045	ug/L	1		8270D	Total/NA
Phenanthrene	0.36	J H	1.0	0.36	ug/L	1		8270D	Total/NA
Acenaphthene - DL	91	H	2.0	0.73	ug/L	2		8270D	Total/NA

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.76	J	1.0	0.43	ug/L	1		8260C	Total/NA
Anthracene	2.4	H	1.0	0.33	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-04AR2-101719 (Continued)

Lab Sample ID: 480-161133-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.25	H	0.20	0.057	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.50	H	0.20	0.059	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.19	J H	0.20	0.076	ug/L	1		8270D	Total/NA
Chrysene	0.77	H	0.51	0.14	ug/L	1		8270D	Total/NA
Fluoranthene	2.2	H	1.0	0.33	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10	J H	0.20	0.086	ug/L	1		8270D	Total/NA
Pyrene	1.4	H *	1.0	0.49	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.59	H	0.20	0.045	ug/L	1		8270D	Total/NA
Phenanthrene	0.85	J H	1.0	0.36	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-TB-03-101719

Lab Sample ID: 480-161133-1

Date Collected: 10/17/19 00:00

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 01:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 01:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 01:19	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 01:19	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 01:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 01:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 01:19	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 01:19	1
Naphthalene	ND		1.0	0.43	ug/L			10/27/19 01:19	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 01:19	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 01:19	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 01:19	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 01:19	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 01:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		77 - 120					10/27/19 01:19	1
4-Bromofluorobenzene (Surr)	105		73 - 120					10/27/19 01:19	1
Dibromofluoromethane (Surr)	119		75 - 123					10/27/19 01:19	1
Toluene-d8 (Surr)	104		80 - 120					10/27/19 01:19	1

Client Sample ID: SUPE-W-30A-101719

Lab Sample ID: 480-161133-2

Date Collected: 10/17/19 11:02

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 01:44	1
1,2,4-Trimethylbenzene	3.2		1.0	0.75	ug/L			10/27/19 01:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 01:44	1
Benzene	2.4		1.0	0.41	ug/L			10/27/19 01:44	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 01:44	1
Ethylbenzene	10		1.0	0.74	ug/L			10/27/19 01:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 01:44	1
m-Xylene & p-Xylene	4.1		2.0	0.66	ug/L			10/27/19 01:44	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 01:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 01:44	1
o-Xylene	3.2		1.0	0.76	ug/L			10/27/19 01:44	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 01:44	1
Toluene	1.1		1.0	0.51	ug/L			10/27/19 01:44	1
Xylenes, Total	7.3		2.0	0.66	ug/L			10/27/19 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120					10/27/19 01:44	1
4-Bromofluorobenzene (Surr)	105		73 - 120					10/27/19 01:44	1
Dibromofluoromethane (Surr)	114		75 - 123					10/27/19 01:44	1
Toluene-d8 (Surr)	104		80 - 120					10/27/19 01:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-30A-101719

Lab Sample ID: 480-161133-2

Date Collected: 10/17/19 11:02

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	91		2.0	0.86	ug/L			10/27/19 11:08	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					10/27/19 11:08	2
4-Bromofluorobenzene (Surr)	103		73 - 120					10/27/19 11:08	2
Dibromofluoromethane (Surr)	108		75 - 123					10/27/19 11:08	2
Toluene-d8 (Surr)	101		80 - 120					10/27/19 11:08	2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		10	3.4	ug/L		10/21/19 15:27	10/26/19 02:24	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 146				10/21/19 15:27	10/26/19 02:24	10
2-Fluorobiphenyl	105		37 - 120				10/21/19 15:27	10/26/19 02:24	10
2-Fluorophenol (Surr)	52		10 - 120				10/21/19 15:27	10/26/19 02:24	10
Nitrobenzene-d5 (Surr)	85		26 - 120				10/21/19 15:27	10/26/19 02:24	10
Phenol-d5 (Surr)	35		11 - 120				10/21/19 15:27	10/26/19 02:24	10
p-Terphenyl-d14	116		64 - 127				10/21/19 15:27	10/26/19 02:24	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 19:30	1
1,2-Dichlorobenzene	ND	H	2.0	0.29	ug/L		10/25/19 10:20	10/25/19 19:30	1
1,3-Dichlorobenzene	ND	H	2.0	0.25	ug/L		10/25/19 10:20	10/25/19 19:30	1
1,4-Dichlorobenzene	ND	H	2.0	0.27	ug/L		10/25/19 10:20	10/25/19 19:30	1
1-Methylnaphthalene	ND	H	2.0	0.51	ug/L		10/25/19 10:20	10/25/19 19:30	1
bis(chloroisopropyl) ether	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,3,4,6-Tetrachlorophenol	ND	H	5.1	1.5	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,4,5-Trichlorophenol	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,4,6-Trichlorophenol	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,4-Dichlorophenol	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,4-Dinitrophenol	ND	H	20	7.5	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,4-Dinitrotoluene	ND	H	1.0	0.30	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,6-Dinitrotoluene	ND	H	1.0	0.12	ug/L		10/25/19 10:20	10/25/19 19:30	1
3 & 4 Methylphenol	ND	H	2.0	0.45	ug/L		10/25/19 10:20	10/25/19 19:30	1
2-Chloronaphthalene	ND	H	2.0	0.34	ug/L		10/25/19 10:20	10/25/19 19:30	1
2-Chlorophenol	ND	H	5.1	0.81	ug/L		10/25/19 10:20	10/25/19 19:30	1
2-Methylnaphthalene	ND	H	2.0	0.13	ug/L		10/25/19 10:20	10/25/19 19:30	1
2-Methylphenol	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 19:30	1
2-Nitroaniline	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 19:30	1
2-Nitrophenol	ND	H	10	2.2	ug/L		10/25/19 10:20	10/25/19 19:30	1
3-Nitroaniline	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 19:30	1
4,6-Dinitro-2-methylphenol	ND	H	20	5.0	ug/L		10/25/19 10:20	10/25/19 19:30	1
4-Bromophenyl phenyl ether	ND	H	5.1	0.92	ug/L		10/25/19 10:20	10/25/19 19:30	1
4-Chloro-3-methylphenol	ND	H	10	2.2	ug/L		10/25/19 10:20	10/25/19 19:30	1
4-Chloroaniline	ND	H	10	2.1	ug/L		10/25/19 10:20	10/25/19 19:30	1
4-Chlorophenyl phenyl ether	ND	H	5.1	0.82	ug/L		10/25/19 10:20	10/25/19 19:30	1
4-Nitroaniline	ND	H	10	4.0	ug/L		10/25/19 10:20	10/25/19 19:30	1
4-Nitrophenol	ND	H	20	2.4	ug/L		10/25/19 10:20	10/25/19 19:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-30A-101719

Lab Sample ID: 480-161133-2

Date Collected: 10/17/19 11:02

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	14	H	1.0	0.37	ug/L		10/25/19 10:20	10/25/19 19:30	1
Acenaphthylene	ND	H	1.0	0.32	ug/L		10/25/19 10:20	10/25/19 19:30	1
Anthracene	0.61	J H	1.0	0.32	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzo[a]pyrene	ND	H	0.20	0.057	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzo[b]fluoranthene	0.069	J H	0.20	0.059	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzo[g,h,i]perylene	ND	H	1.0	0.43	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzo[k]fluoranthene	ND	H	0.20	0.075	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzoic acid	ND	H *	20	4.6	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzyl alcohol	ND	H	20	3.1	ug/L		10/25/19 10:20	10/25/19 19:30	1
Bis(2-chloroethoxy)methane	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 19:30	1
Bis(2-chloroethyl)ether	ND	H	2.0	0.36	ug/L		10/25/19 10:20	10/25/19 19:30	1
Bis(2-ethylhexyl) phthalate	ND	H	10	2.5	ug/L		10/25/19 10:20	10/25/19 19:30	1
Butyl benzyl phthalate	ND	H	2.0	0.27	ug/L		10/25/19 10:20	10/25/19 19:30	1
Chrysene	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 19:30	1
Dibenz(a,h)anthracene	ND	H	0.30	0.065	ug/L		10/25/19 10:20	10/25/19 19:30	1
Dibenzofuran	2.9	H	2.0	0.36	ug/L		10/25/19 10:20	10/25/19 19:30	1
Diethyl phthalate	ND	H	2.0	0.45	ug/L		10/25/19 10:20	10/25/19 19:30	1
Dimethyl phthalate	ND	H	2.0	0.39	ug/L		10/25/19 10:20	10/25/19 19:30	1
Di-n-butyl phthalate	ND	H	5.1	0.81	ug/L		10/25/19 10:20	10/25/19 19:30	1
Di-n-octyl phthalate	ND	H	10	2.5	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,3,5,6-Tetrachlorophenol	ND	H	5.1	2.5	ug/L		10/25/19 10:20	10/25/19 19:30	1
Fluoranthene	0.99	J H	1.0	0.32	ug/L		10/25/19 10:20	10/25/19 19:30	1
Fluorene	1.5	H	1.0	0.39	ug/L		10/25/19 10:20	10/25/19 19:30	1
Hexachlorobenzene	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 19:30	1
Hexachlorobutadiene	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 19:30	1
Hexachlorocyclopentadiene	ND	H	20	3.5	ug/L		10/25/19 10:20	10/25/19 19:30	1
Hexachloroethane	ND	H	5.1	0.98	ug/L		10/25/19 10:20	10/25/19 19:30	1
Indeno[1,2,3-cd]pyrene	ND	H	0.20	0.085	ug/L		10/25/19 10:20	10/25/19 19:30	1
Isophorone	ND	H	2.0	0.29	ug/L		10/25/19 10:20	10/25/19 19:30	1
Nitrobenzene	ND	H	1.0	0.46	ug/L		10/25/19 10:20	10/25/19 19:30	1
N-Nitrosodi-n-propylamine	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 19:30	1
N-Nitrosodiphenylamine	ND	H	2.0	0.34	ug/L		10/25/19 10:20	10/25/19 19:30	1
Phenol	ND	H	5.1	0.37	ug/L		10/25/19 10:20	10/25/19 19:30	1
Pyrene	0.65	J H *	1.0	0.49	ug/L		10/25/19 10:20	10/25/19 19:30	1
2,4-Dimethylphenol	ND	H	10	3.4	ug/L		10/25/19 10:20	10/25/19 19:30	1
Benzo[a]anthracene	0.11	J H	0.20	0.045	ug/L		10/25/19 10:20	10/25/19 19:30	1
Phenanthrene	ND	H	1.0	0.36	ug/L		10/25/19 10:20	10/25/19 19:30	1
3,3'-Dichlorobenzidine	ND	H	5.1	0.95	ug/L		10/25/19 10:20	10/25/19 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		40 - 145	10/25/19 10:20	10/25/19 19:30	1
2-Fluorobiphenyl	100		34 - 110	10/25/19 10:20	10/25/19 19:30	1
2-Fluorophenol (Surr)	45		27 - 110	10/25/19 10:20	10/25/19 19:30	1
Nitrobenzene-d5 (Surr)	94		36 - 120	10/25/19 10:20	10/25/19 19:30	1
Phenol-d5 (Surr)	35		20 - 100	10/25/19 10:20	10/25/19 19:30	1
Terphenyl-d14 (Surr)	86		40 - 145	10/25/19 10:20	10/25/19 19:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-EB-03-101719

Lab Sample ID: 480-161133-3

Date Collected: 10/17/19 12:02

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 02:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 02:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 02:08	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 02:08	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 02:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 02:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 02:08	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 02:08	1
Naphthalene	0.83	J	1.0	0.43	ug/L			10/27/19 02:08	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 02:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 02:08	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 02:08	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 02:08	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 02:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					10/27/19 02:08	1
4-Bromofluorobenzene (Surr)	102		73 - 120					10/27/19 02:08	1
Dibromofluoromethane (Surr)	109		75 - 123					10/27/19 02:08	1
Toluene-d8 (Surr)	100		80 - 120					10/27/19 02:08	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/21/19 15:27	10/26/19 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		24 - 146				10/21/19 15:27	10/26/19 02:53	1
2-Fluorobiphenyl	105		37 - 120				10/21/19 15:27	10/26/19 02:53	1
2-Fluorophenol (Surr)	57		10 - 120				10/21/19 15:27	10/26/19 02:53	1
Nitrobenzene-d5 (Surr)	100		26 - 120				10/21/19 15:27	10/26/19 02:53	1
Phenol-d5 (Surr)	38		11 - 120				10/21/19 15:27	10/26/19 02:53	1
p-Terphenyl-d14	119		64 - 127				10/21/19 15:27	10/26/19 02:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	1.9	0.29	ug/L		10/25/19 10:20	10/25/19 19:54	1
1,2-Dichlorobenzene	ND	H	1.9	0.28	ug/L		10/25/19 10:20	10/25/19 19:54	1
1,3-Dichlorobenzene	ND	H	1.9	0.24	ug/L		10/25/19 10:20	10/25/19 19:54	1
1,4-Dichlorobenzene	ND	H	1.9	0.26	ug/L		10/25/19 10:20	10/25/19 19:54	1
1-Methylnaphthalene	ND	H	1.9	0.49	ug/L		10/25/19 10:20	10/25/19 19:54	1
bis(chloroisopropyl) ether	ND	H	1.9	0.29	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,3,4,6-Tetrachlorophenol	ND	H	4.9	1.5	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,4,5-Trichlorophenol	ND	H	9.7	2.2	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,4,6-Trichlorophenol	ND	H	4.9	1.1	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,4-Dichlorophenol	ND	H	9.7	2.2	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,4-Dinitrophenol	ND	H	19	7.2	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,4-Dinitrotoluene	ND	H	0.97	0.29	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,6-Dinitrotoluene	ND	H	0.97	0.12	ug/L		10/25/19 10:20	10/25/19 19:54	1
3 & 4 Methylphenol	ND	H	1.9	0.43	ug/L		10/25/19 10:20	10/25/19 19:54	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-EB-03-101719

Lab Sample ID: 480-161133-3

Date Collected: 10/17/19 12:02

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND	H	1.9	0.33	ug/L		10/25/19 10:20	10/25/19 19:54	1
2-Chlorophenol	ND	H	4.9	0.78	ug/L		10/25/19 10:20	10/25/19 19:54	1
2-Methylnaphthalene	ND	H	1.9	0.13	ug/L		10/25/19 10:20	10/25/19 19:54	1
2-Methylphenol	ND	H	1.9	0.30	ug/L		10/25/19 10:20	10/25/19 19:54	1
2-Nitroaniline	ND	H	4.9	1.0	ug/L		10/25/19 10:20	10/25/19 19:54	1
2-Nitrophenol	ND	H	9.7	2.1	ug/L		10/25/19 10:20	10/25/19 19:54	1
3-Nitroaniline	ND	H	9.7	2.2	ug/L		10/25/19 10:20	10/25/19 19:54	1
4,6-Dinitro-2-methylphenol	ND	H	19	4.8	ug/L		10/25/19 10:20	10/25/19 19:54	1
4-Bromophenyl phenyl ether	ND	H	4.9	0.88	ug/L		10/25/19 10:20	10/25/19 19:54	1
4-Chloro-3-methylphenol	ND	H	9.7	2.1	ug/L		10/25/19 10:20	10/25/19 19:54	1
4-Chloroaniline	ND	H	9.7	2.0	ug/L		10/25/19 10:20	10/25/19 19:54	1
4-Chlorophenyl phenyl ether	ND	H	4.9	0.79	ug/L		10/25/19 10:20	10/25/19 19:54	1
4-Nitroaniline	ND	H	9.7	3.8	ug/L		10/25/19 10:20	10/25/19 19:54	1
4-Nitrophenol	ND	H	19	2.3	ug/L		10/25/19 10:20	10/25/19 19:54	1
Acenaphthene	ND	H	0.97	0.35	ug/L		10/25/19 10:20	10/25/19 19:54	1
Acenaphthylene	ND	H	0.97	0.31	ug/L		10/25/19 10:20	10/25/19 19:54	1
Anthracene	ND	H	0.97	0.31	ug/L		10/25/19 10:20	10/25/19 19:54	1
Benzo[a]pyrene	ND	H	0.19	0.054	ug/L		10/25/19 10:20	10/25/19 19:54	1
Benzo[b]fluoranthene	ND	H	0.19	0.056	ug/L		10/25/19 10:20	10/25/19 19:54	1
Benzo[g,h,i]perylene	ND	H	0.97	0.41	ug/L		10/25/19 10:20	10/25/19 19:54	1
Benzo[k]fluoranthene	ND	H	0.19	0.072	ug/L		10/25/19 10:20	10/25/19 19:54	1
Benzoic acid	ND	H *	19	4.4	ug/L		10/25/19 10:20	10/25/19 19:54	1
Benzyl alcohol	ND	H	19	3.0	ug/L		10/25/19 10:20	10/25/19 19:54	1
Bis(2-chloroethoxy)methane	ND	H	1.9	0.29	ug/L		10/25/19 10:20	10/25/19 19:54	1
Bis(2-chloroethyl)ether	ND	H	1.9	0.34	ug/L		10/25/19 10:20	10/25/19 19:54	1
Bis(2-ethylhexyl) phthalate	ND	H	9.7	2.4	ug/L		10/25/19 10:20	10/25/19 19:54	1
Butyl benzyl phthalate	ND	H	1.9	0.26	ug/L		10/25/19 10:20	10/25/19 19:54	1
Chrysene	ND	H	0.49	0.14	ug/L		10/25/19 10:20	10/25/19 19:54	1
Dibenz(a,h)anthracene	ND	H	0.29	0.062	ug/L		10/25/19 10:20	10/25/19 19:54	1
Dibenzofuran	ND	H	1.9	0.34	ug/L		10/25/19 10:20	10/25/19 19:54	1
Diethyl phthalate	ND	H	1.9	0.43	ug/L		10/25/19 10:20	10/25/19 19:54	1
Dimethyl phthalate	ND	H	1.9	0.37	ug/L		10/25/19 10:20	10/25/19 19:54	1
Di-n-butyl phthalate	ND	H	4.9	0.78	ug/L		10/25/19 10:20	10/25/19 19:54	1
Di-n-octyl phthalate	ND	H	9.7	2.4	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,3,5,6-Tetrachlorophenol	ND	H	4.9	2.4	ug/L		10/25/19 10:20	10/25/19 19:54	1
Fluoranthene	ND	H	0.97	0.31	ug/L		10/25/19 10:20	10/25/19 19:54	1
Fluorene	ND	H	0.97	0.37	ug/L		10/25/19 10:20	10/25/19 19:54	1
Hexachlorobenzene	ND	H	0.49	0.14	ug/L		10/25/19 10:20	10/25/19 19:54	1
Hexachlorobutadiene	ND	H	4.9	1.1	ug/L		10/25/19 10:20	10/25/19 19:54	1
Hexachlorocyclopentadiene	ND	H	19	3.3	ug/L		10/25/19 10:20	10/25/19 19:54	1
Hexachloroethane	ND	H	4.9	0.94	ug/L		10/25/19 10:20	10/25/19 19:54	1
Indeno[1,2,3-cd]pyrene	ND	H	0.19	0.081	ug/L		10/25/19 10:20	10/25/19 19:54	1
Isophorone	ND	H	1.9	0.28	ug/L		10/25/19 10:20	10/25/19 19:54	1
Nitrobenzene	ND	H	0.97	0.44	ug/L		10/25/19 10:20	10/25/19 19:54	1
N-Nitrosodi-n-propylamine	ND	H	0.49	0.14	ug/L		10/25/19 10:20	10/25/19 19:54	1
N-Nitrosodiphenylamine	ND	H	1.9	0.33	ug/L		10/25/19 10:20	10/25/19 19:54	1
Phenol	ND	H	4.9	0.35	ug/L		10/25/19 10:20	10/25/19 19:54	1
Pyrene	ND	H *	0.97	0.47	ug/L		10/25/19 10:20	10/25/19 19:54	1
2,4-Dimethylphenol	ND	H	9.7	3.2	ug/L		10/25/19 10:20	10/25/19 19:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-EB-03-101719

Lab Sample ID: 480-161133-3

Date Collected: 10/17/19 12:02

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND	H	0.19	0.043	ug/L		10/25/19 10:20	10/25/19 19:54	1
Phenanthrene	ND	H	0.97	0.34	ug/L		10/25/19 10:20	10/25/19 19:54	1
3,3'-Dichlorobenzidine	ND	H	4.9	0.91	ug/L		10/25/19 10:20	10/25/19 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		40 - 145				10/25/19 10:20	10/25/19 19:54	1
2-Fluorobiphenyl	99		34 - 110				10/25/19 10:20	10/25/19 19:54	1
2-Fluorophenol (Surr)	43		27 - 110				10/25/19 10:20	10/25/19 19:54	1
Nitrobenzene-d5 (Surr)	92		36 - 120				10/25/19 10:20	10/25/19 19:54	1
Phenol-d5 (Surr)	29		20 - 100				10/25/19 10:20	10/25/19 19:54	1
Terphenyl-d14 (Surr)	104		40 - 145				10/25/19 10:20	10/25/19 19:54	1

Client Sample ID: SUPE-W-10AR2-101719

Lab Sample ID: 480-161133-4

Date Collected: 10/17/19 13:11

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 02:32	1
1,2,4-Trimethylbenzene	9.4		1.0	0.75	ug/L			10/27/19 02:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 02:32	1
Benzene	22		1.0	0.41	ug/L			10/27/19 02:32	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 02:32	1
Ethylbenzene	46		1.0	0.74	ug/L			10/27/19 02:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 02:32	1
m-Xylene & p-Xylene	3.3		2.0	0.66	ug/L			10/27/19 02:32	1
Naphthalene	2.3		1.0	0.43	ug/L			10/27/19 02:32	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 02:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 02:32	1
o-Xylene	19		1.0	0.76	ug/L			10/27/19 02:32	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 02:32	1
Toluene	2.7		1.0	0.51	ug/L			10/27/19 02:32	1
Xylenes, Total	22		2.0	0.66	ug/L			10/27/19 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120					10/27/19 02:32	1
4-Bromofluorobenzene (Surr)	105		73 - 120					10/27/19 02:32	1
Dibromofluoromethane (Surr)	116		75 - 123					10/27/19 02:32	1
Toluene-d8 (Surr)	103		80 - 120					10/27/19 02:32	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.7	ug/L		10/21/19 15:27	10/26/19 03:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	128		24 - 146				10/21/19 15:27	10/26/19 03:21	5
2-Fluorobiphenyl	113		37 - 120				10/21/19 15:27	10/26/19 03:21	5
2-Fluorophenol (Surr)	60		10 - 120				10/21/19 15:27	10/26/19 03:21	5
Nitrobenzene-d5 (Surr)	100		26 - 120				10/21/19 15:27	10/26/19 03:21	5
Phenol-d5 (Surr)	40		11 - 120				10/21/19 15:27	10/26/19 03:21	5
p-Terphenyl-d14	122		64 - 127				10/21/19 15:27	10/26/19 03:21	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-10AR2-101719

Lab Sample ID: 480-161133-4

Date Collected: 10/17/19 13:11

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:18	1
1,2-Dichlorobenzene	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 20:18	1
1,3-Dichlorobenzene	ND	H	2.0	0.25	ug/L		10/25/19 10:20	10/25/19 20:18	1
1,4-Dichlorobenzene	ND	H	2.0	0.27	ug/L		10/25/19 10:20	10/25/19 20:18	1
1-Methylnaphthalene	28	H	2.0	0.51	ug/L		10/25/19 10:20	10/25/19 20:18	1
bis(chloroisopropyl) ether	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,3,4,6-Tetrachlorophenol	ND	H	5.1	1.5	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,4,5-Trichlorophenol	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,4,6-Trichlorophenol	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,4-Dichlorophenol	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,4-Dinitrophenol	ND	H	20	7.6	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,4-Dinitrotoluene	ND	H	1.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,6-Dinitrotoluene	ND	H	1.0	0.12	ug/L		10/25/19 10:20	10/25/19 20:18	1
3 & 4 Methylphenol	ND	H	2.0	0.45	ug/L		10/25/19 10:20	10/25/19 20:18	1
2-Chloronaphthalene	ND	H	2.0	0.35	ug/L		10/25/19 10:20	10/25/19 20:18	1
2-Chlorophenol	ND	H	5.1	0.81	ug/L		10/25/19 10:20	10/25/19 20:18	1
2-Methylnaphthalene	ND	H	2.0	0.13	ug/L		10/25/19 10:20	10/25/19 20:18	1
2-Methylphenol	ND	H	2.0	0.32	ug/L		10/25/19 10:20	10/25/19 20:18	1
2-Nitroaniline	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 20:18	1
2-Nitrophenol	ND	H	10	2.2	ug/L		10/25/19 10:20	10/25/19 20:18	1
3-Nitroaniline	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 20:18	1
4,6-Dinitro-2-methylphenol	ND	H	20	5.0	ug/L		10/25/19 10:20	10/25/19 20:18	1
4-Bromophenyl phenyl ether	ND	H	5.1	0.93	ug/L		10/25/19 10:20	10/25/19 20:18	1
4-Chloro-3-methylphenol	ND	H	10	2.2	ug/L		10/25/19 10:20	10/25/19 20:18	1
4-Chloroaniline	ND	H	10	2.1	ug/L		10/25/19 10:20	10/25/19 20:18	1
4-Chlorophenyl phenyl ether	ND	H	5.1	0.82	ug/L		10/25/19 10:20	10/25/19 20:18	1
4-Nitroaniline	ND	H	10	4.0	ug/L		10/25/19 10:20	10/25/19 20:18	1
4-Nitrophenol	ND	H	20	2.4	ug/L		10/25/19 10:20	10/25/19 20:18	1
Acenaphthylene	1.9	H	1.0	0.33	ug/L		10/25/19 10:20	10/25/19 20:18	1
Anthracene	0.73	J H	1.0	0.33	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzo[a]pyrene	ND	H	0.20	0.057	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzo[b]fluoranthene	ND	H	0.20	0.059	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzo[g,h,i]perylene	ND	H	1.0	0.43	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzo[k]fluoranthene	ND	H	0.20	0.075	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzoic acid	ND	H *	20	4.6	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzyl alcohol	ND	H	20	3.1	ug/L		10/25/19 10:20	10/25/19 20:18	1
Bis(2-chloroethoxy)methane	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:18	1
Bis(2-chloroethyl)ether	ND	H	2.0	0.36	ug/L		10/25/19 10:20	10/25/19 20:18	1
Bis(2-ethylhexyl) phthalate	ND	H	10	2.5	ug/L		10/25/19 10:20	10/25/19 20:18	1
Butyl benzyl phthalate	ND	H	2.0	0.27	ug/L		10/25/19 10:20	10/25/19 20:18	1
Chrysene	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 20:18	1
Dibenz(a,h)anthracene	ND	H	0.31	0.065	ug/L		10/25/19 10:20	10/25/19 20:18	1
Dibenzofuran	12	H	2.0	0.36	ug/L		10/25/19 10:20	10/25/19 20:18	1
Diethyl phthalate	ND	H	2.0	0.45	ug/L		10/25/19 10:20	10/25/19 20:18	1
Dimethyl phthalate	ND	H	2.0	0.39	ug/L		10/25/19 10:20	10/25/19 20:18	1
Di-n-butyl phthalate	ND	H	5.1	0.81	ug/L		10/25/19 10:20	10/25/19 20:18	1
Di-n-octyl phthalate	ND	H	10	2.5	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,3,5,6-Tetrachlorophenol	ND	H	5.1	2.5	ug/L		10/25/19 10:20	10/25/19 20:18	1
Fluoranthene	2.0	H	1.0	0.33	ug/L		10/25/19 10:20	10/25/19 20:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-10AR2-101719

Lab Sample ID: 480-161133-4

Date Collected: 10/17/19 13:11

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	19	H	1.0	0.39	ug/L		10/25/19 10:20	10/25/19 20:18	1
Hexachlorobenzene	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 20:18	1
Hexachlorobutadiene	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 20:18	1
Hexachlorocyclopentadiene	ND	H	20	3.5	ug/L		10/25/19 10:20	10/25/19 20:18	1
Hexachloroethane	ND	H	5.1	0.99	ug/L		10/25/19 10:20	10/25/19 20:18	1
Indeno[1,2,3-cd]pyrene	ND	H	0.20	0.085	ug/L		10/25/19 10:20	10/25/19 20:18	1
Isophorone	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 20:18	1
Nitrobenzene	ND	H	1.0	0.46	ug/L		10/25/19 10:20	10/25/19 20:18	1
N-Nitrosodi-n-propylamine	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 20:18	1
N-Nitrosodiphenylamine	ND	H	2.0	0.35	ug/L		10/25/19 10:20	10/25/19 20:18	1
Phenol	ND	H	5.1	0.37	ug/L		10/25/19 10:20	10/25/19 20:18	1
Pyrene	1.2	H *	1.0	0.49	ug/L		10/25/19 10:20	10/25/19 20:18	1
2,4-Dimethylphenol	ND	H	10	3.4	ug/L		10/25/19 10:20	10/25/19 20:18	1
Benzo[a]anthracene	0.13	J H	0.20	0.045	ug/L		10/25/19 10:20	10/25/19 20:18	1
Phenanthrene	0.36	J H	1.0	0.36	ug/L		10/25/19 10:20	10/25/19 20:18	1
3,3'-Dichlorobenzidine	ND	H	5.1	0.96	ug/L		10/25/19 10:20	10/25/19 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		40 - 145	10/25/19 10:20	10/25/19 20:18	1
2-Fluorobiphenyl	96		34 - 110	10/25/19 10:20	10/25/19 20:18	1
2-Fluorophenol (Surr)	46		27 - 110	10/25/19 10:20	10/25/19 20:18	1
Nitrobenzene-d5 (Surr)	92		36 - 120	10/25/19 10:20	10/25/19 20:18	1
Phenol-d5 (Surr)	33		20 - 100	10/25/19 10:20	10/25/19 20:18	1
Terphenyl-d14 (Surr)	79		40 - 145	10/25/19 10:20	10/25/19 20:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	91	H	2.0	0.73	ug/L		10/25/19 10:20	10/28/19 12:55	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	114		40 - 145	10/25/19 10:20	10/28/19 12:55	2
2-Fluorobiphenyl	95		34 - 110	10/25/19 10:20	10/28/19 12:55	2
2-Fluorophenol (Surr)	32		27 - 110	10/25/19 10:20	10/28/19 12:55	2
Nitrobenzene-d5 (Surr)	59		36 - 120	10/25/19 10:20	10/28/19 12:55	2
Phenol-d5 (Surr)	27		20 - 100	10/25/19 10:20	10/28/19 12:55	2
Terphenyl-d14 (Surr)	90		40 - 145	10/25/19 10:20	10/28/19 12:55	2

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Date Collected: 10/17/19 09:04

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 02:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 02:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 02:56	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 02:56	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 02:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 02:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 02:56	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 02:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Date Collected: 10/17/19 09:04

Matrix: Water

Date Received: 10/18/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.76	J	1.0	0.43	ug/L			10/27/19 02:56	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 02:56	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 02:56	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 02:56	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 02:56	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 02:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		10/27/19 02:56	1
4-Bromofluorobenzene (Surr)	114		73 - 120		10/27/19 02:56	1
Dibromofluoromethane (Surr)	119		75 - 123		10/27/19 02:56	1
Toluene-d8 (Surr)	108		80 - 120		10/27/19 02:56	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.7	ug/L		10/21/19 15:27	10/26/19 03:49	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		24 - 146	10/21/19 15:27	10/26/19 03:49	5
2-Fluorobiphenyl	102		37 - 120	10/21/19 15:27	10/26/19 03:49	5
2-Fluorophenol (Surr)	48		10 - 120	10/21/19 15:27	10/26/19 03:49	5
Nitrobenzene-d5 (Surr)	85		26 - 120	10/21/19 15:27	10/26/19 03:49	5
Phenol-d5 (Surr)	31		11 - 120	10/21/19 15:27	10/26/19 03:49	5
p-Terphenyl-d14	114		64 - 127	10/21/19 15:27	10/26/19 03:49	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:42	1
1,2-Dichlorobenzene	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 20:42	1
1,3-Dichlorobenzene	ND	H	2.0	0.26	ug/L		10/25/19 10:20	10/25/19 20:42	1
1,4-Dichlorobenzene	ND	H	2.0	0.28	ug/L		10/25/19 10:20	10/25/19 20:42	1
1-Methylnaphthalene	ND	H	2.0	0.51	ug/L		10/25/19 10:20	10/25/19 20:42	1
bis(chloroisopropyl) ether	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,3,4,6-Tetrachlorophenol	ND	H	5.1	1.5	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,4,5-Trichlorophenol	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,4,6-Trichlorophenol	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,4-Dichlorophenol	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,4-Dinitrophenol	ND	H	20	7.6	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,4-Dinitrotoluene	ND	H	1.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,6-Dinitrotoluene	ND	H	1.0	0.12	ug/L		10/25/19 10:20	10/25/19 20:42	1
3 & 4 Methylphenol	ND	H	2.0	0.45	ug/L		10/25/19 10:20	10/25/19 20:42	1
2-Chloronaphthalene	ND	H	2.0	0.35	ug/L		10/25/19 10:20	10/25/19 20:42	1
2-Chlorophenol	ND	H	5.1	0.82	ug/L		10/25/19 10:20	10/25/19 20:42	1
2-Methylnaphthalene	ND	H	2.0	0.13	ug/L		10/25/19 10:20	10/25/19 20:42	1
2-Methylphenol	ND	H	2.0	0.32	ug/L		10/25/19 10:20	10/25/19 20:42	1
2-Nitroaniline	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 20:42	1
2-Nitrophenol	ND	H	10	2.2	ug/L		10/25/19 10:20	10/25/19 20:42	1
3-Nitroaniline	ND	H	10	2.3	ug/L		10/25/19 10:20	10/25/19 20:42	1
4,6-Dinitro-2-methylphenol	ND	H	20	5.0	ug/L		10/25/19 10:20	10/25/19 20:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Date Collected: 10/17/19 09:04

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND	H	5.1	0.93	ug/L		10/25/19 10:20	10/25/19 20:42	1
4-Chloro-3-methylphenol	ND	H	10	2.2	ug/L		10/25/19 10:20	10/25/19 20:42	1
4-Chloroaniline	ND	H	10	2.1	ug/L		10/25/19 10:20	10/25/19 20:42	1
4-Chlorophenyl phenyl ether	ND	H	5.1	0.83	ug/L		10/25/19 10:20	10/25/19 20:42	1
4-Nitroaniline	ND	H	10	4.0	ug/L		10/25/19 10:20	10/25/19 20:42	1
4-Nitrophenol	ND	H	20	2.4	ug/L		10/25/19 10:20	10/25/19 20:42	1
Acenaphthene	ND	H	1.0	0.37	ug/L		10/25/19 10:20	10/25/19 20:42	1
Acenaphthylene	ND	H	1.0	0.33	ug/L		10/25/19 10:20	10/25/19 20:42	1
Anthracene	2.4	H	1.0	0.33	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzo[a]pyrene	0.25	H	0.20	0.057	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzo[b]fluoranthene	0.50	H	0.20	0.059	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzo[g,h,i]perylene	ND	H	1.0	0.43	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzo[k]fluoranthene	0.19	J H	0.20	0.076	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzoic acid	ND	H *	20	4.7	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzyl alcohol	ND	H	20	3.1	ug/L		10/25/19 10:20	10/25/19 20:42	1
Bis(2-chloroethoxy)methane	ND	H	2.0	0.31	ug/L		10/25/19 10:20	10/25/19 20:42	1
Bis(2-chloroethyl)ether	ND	H	2.0	0.36	ug/L		10/25/19 10:20	10/25/19 20:42	1
Bis(2-ethylhexyl) phthalate	ND	H	10	2.5	ug/L		10/25/19 10:20	10/25/19 20:42	1
Butyl benzyl phthalate	ND	H	2.0	0.28	ug/L		10/25/19 10:20	10/25/19 20:42	1
Chrysene	0.77	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 20:42	1
Dibenz(a,h)anthracene	ND	H	0.31	0.065	ug/L		10/25/19 10:20	10/25/19 20:42	1
Dibenzofuran	ND	H	2.0	0.36	ug/L		10/25/19 10:20	10/25/19 20:42	1
Diethyl phthalate	ND	H	2.0	0.45	ug/L		10/25/19 10:20	10/25/19 20:42	1
Dimethyl phthalate	ND	H	2.0	0.39	ug/L		10/25/19 10:20	10/25/19 20:42	1
Di-n-butyl phthalate	ND	H	5.1	0.82	ug/L		10/25/19 10:20	10/25/19 20:42	1
Di-n-octyl phthalate	ND	H	10	2.5	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,3,5,6-Tetrachlorophenol	ND	H	5.1	2.6	ug/L		10/25/19 10:20	10/25/19 20:42	1
Fluoranthene	2.2	H	1.0	0.33	ug/L		10/25/19 10:20	10/25/19 20:42	1
Fluorene	ND	H	1.0	0.39	ug/L		10/25/19 10:20	10/25/19 20:42	1
Hexachlorobenzene	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 20:42	1
Hexachlorobutadiene	ND	H	5.1	1.1	ug/L		10/25/19 10:20	10/25/19 20:42	1
Hexachlorocyclopentadiene	ND	H	20	3.5	ug/L		10/25/19 10:20	10/25/19 20:42	1
Hexachloroethane	ND	H	5.1	0.99	ug/L		10/25/19 10:20	10/25/19 20:42	1
Indeno[1,2,3-cd]pyrene	0.10	J H	0.20	0.086	ug/L		10/25/19 10:20	10/25/19 20:42	1
Isophorone	ND	H	2.0	0.30	ug/L		10/25/19 10:20	10/25/19 20:42	1
Nitrobenzene	ND	H	1.0	0.46	ug/L		10/25/19 10:20	10/25/19 20:42	1
N-Nitrosodi-n-propylamine	ND	H	0.51	0.14	ug/L		10/25/19 10:20	10/25/19 20:42	1
N-Nitrosodiphenylamine	ND	H	2.0	0.35	ug/L		10/25/19 10:20	10/25/19 20:42	1
Phenol	ND	H	5.1	0.37	ug/L		10/25/19 10:20	10/25/19 20:42	1
Pyrene	1.4	H *	1.0	0.49	ug/L		10/25/19 10:20	10/25/19 20:42	1
2,4-Dimethylphenol	ND	H	10	3.4	ug/L		10/25/19 10:20	10/25/19 20:42	1
Benzo[a]anthracene	0.59	H	0.20	0.045	ug/L		10/25/19 10:20	10/25/19 20:42	1
Phenanthrene	0.85	J H	1.0	0.36	ug/L		10/25/19 10:20	10/25/19 20:42	1
3,3'-Dichlorobenzidine	ND	H	5.1	0.96	ug/L		10/25/19 10:20	10/25/19 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		40 - 145	10/25/19 10:20	10/25/19 20:42	1
2-Fluorobiphenyl	101		34 - 110	10/25/19 10:20	10/25/19 20:42	1
2-Fluorophenol (Surr)	45		27 - 110	10/25/19 10:20	10/25/19 20:42	1
Nitrobenzene-d5 (Surr)	96		36 - 120	10/25/19 10:20	10/25/19 20:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Date Collected: 10/17/19 09:04

Matrix: Water

Date Received: 10/18/19 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Phenol-d5 (Surr)</i>	35		20 - 100	10/25/19 10:20	10/25/19 20:42	1
<i>Terphenyl-d14 (Surr)</i>	106		40 - 145	10/25/19 10:20	10/25/19 20:42	1

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Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-161133-1	SUPE-TB-03-101719	117	105	119	104
480-161133-2	SUPE-W-30A-101719	114	105	114	104
480-161133-2 - DL	SUPE-W-30A-101719	111	103	108	101
480-161133-3	SUPE-EB-03-101719	109	102	109	100
480-161133-4	SUPE-W-10AR2-101719	114	105	116	103
480-161133-5	SUPE-W-04AR2-101719	116	114	119	108
LCS 480-500429/5	Lab Control Sample	111	103	110	101
LCS 480-500526/6	Lab Control Sample	108	101	112	102
MB 480-500429/7	Method Blank	112	103	113	104
MB 480-500526/8	Method Blank	109	102	108	101

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)
480-161133-2	SUPE-W-30A-101719	102	100	45	94	35	86
480-161133-3	SUPE-EB-03-101719	101	99	43	92	29	104
480-161133-4	SUPE-W-10AR2-101719	110	96	46	92	33	79
480-161133-4 - DL	SUPE-W-10AR2-101719	114	95	32	59	27	90
480-161133-5	SUPE-W-04AR2-101719	110	101	45	96	35	106
MB 500-511959/1-A	Method Blank	102	99	49	96	39	107

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-161133-2	SUPE-W-30A-101719	90	105	52	85	35	116
480-161133-3	SUPE-EB-03-101719	91	105	57	100	38	119
480-161133-4	SUPE-W-10AR2-101719	128	113	60	100	40	122
480-161133-5	SUPE-W-04AR2-101719	106	102	48	85	31	114
LCS 480-499280/2-A	Lab Control Sample	107	96	55	98	39	111
LCSD 480-499280/3-A	Lab Control Sample Dup	119	102	59	105	43	117
MB 480-499280/1-A	Method Blank	57	84	50	77	35	97

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Surrogate Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

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

Lab Sample ID: MB 480-500429/7
Matrix: Water
Analysis Batch: 500429

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 22:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 22:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 22:04	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 22:04	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 22:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 22:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 22:04	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 22:04	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 22:04	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 22:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 22:04	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 22:04	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 22:04	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 22:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 22:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		10/26/19 22:04	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/26/19 22:04	1
Dibromofluoromethane (Surr)	113		75 - 123		10/26/19 22:04	1
Toluene-d8 (Surr)	104		80 - 120		10/26/19 22:04	1

Lab Sample ID: LCS 480-500429/5
Matrix: Water
Analysis Batch: 500429

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	28.6		ug/L		114	73 - 126
1,2,4-Trimethylbenzene	25.0	25.9		ug/L		103	76 - 121
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	77 - 121
Benzene	25.0	25.5		ug/L		102	71 - 124
Chloromethane	25.0	23.4		ug/L		94	68 - 124
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Methyl tert-butyl ether	25.0	25.5		ug/L		102	77 - 120
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	76 - 122
Naphthalene	25.0	25.6		ug/L		102	66 - 125
n-Butylbenzene	25.0	24.0		ug/L		96	71 - 128
N-Propylbenzene	25.0	24.6		ug/L		98	75 - 127
o-Xylene	25.0	25.1		ug/L		100	76 - 122
Styrene	25.0	24.9		ug/L		100	80 - 120
Toluene	25.0	25.0		ug/L		100	80 - 122
Xylenes, Total	50.0	50.5		ug/L		101	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	110		75 - 123
Toluene-d8 (Surr)	101		80 - 120

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

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

Lab Sample ID: MB 480-500526/8
Matrix: Water
Analysis Batch: 500526

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 10:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 10:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 10:34	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 10:34	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 10:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 10:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 10:34	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 10:34	1
Naphthalene	ND		1.0	0.43	ug/L			10/27/19 10:34	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 10:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 10:34	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 10:34	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 10:34	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 10:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 10:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		10/27/19 10:34	1
4-Bromofluorobenzene (Surr)	102		73 - 120		10/27/19 10:34	1
Dibromofluoromethane (Surr)	108		75 - 123		10/27/19 10:34	1
Toluene-d8 (Surr)	101		80 - 120		10/27/19 10:34	1

Lab Sample ID: LCS 480-500526/6
Matrix: Water
Analysis Batch: 500526

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	29.5		ug/L		118	73 - 126
1,2,4-Trimethylbenzene	25.0	27.9		ug/L		112	76 - 121
1,3,5-Trimethylbenzene	25.0	27.6		ug/L		111	77 - 121
Benzene	25.0	25.8		ug/L		103	71 - 124
Chloromethane	25.0	24.3		ug/L		97	68 - 124
Ethylbenzene	25.0	26.0		ug/L		104	77 - 123
Methyl tert-butyl ether	25.0	26.5		ug/L		106	77 - 120
m-Xylene & p-Xylene	25.0	26.1		ug/L		105	76 - 122
Naphthalene	25.0	27.9		ug/L		111	66 - 125
n-Butylbenzene	25.0	26.6		ug/L		107	71 - 128
N-Propylbenzene	25.0	26.2		ug/L		105	75 - 127
o-Xylene	25.0	26.4		ug/L		105	76 - 122
Styrene	25.0	25.6		ug/L		103	80 - 120
Toluene	25.0	25.6		ug/L		102	80 - 122
Xylenes, Total	50.0	52.5		ug/L		105	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	112		75 - 123
Toluene-d8 (Surr)	102		80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-511959/1-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511959

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/25/19 10:20	10/25/19 18:42	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/25/19 10:20	10/25/19 18:42	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/25/19 10:20	10/25/19 18:42	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/25/19 10:20	10/25/19 18:42	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		10/25/19 10:20	10/25/19 18:42	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/25/19 10:20	10/25/19 18:42	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/25/19 10:20	10/25/19 18:42	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		10/25/19 10:20	10/25/19 18:42	1
2-Chlorophenol	ND		5.0	0.80	ug/L		10/25/19 10:20	10/25/19 18:42	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/25/19 10:20	10/25/19 18:42	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/25/19 10:20	10/25/19 18:42	1
2-Nitroaniline	ND		5.0	1.1	ug/L		10/25/19 10:20	10/25/19 18:42	1
2-Nitrophenol	ND		10	2.1	ug/L		10/25/19 10:20	10/25/19 18:42	1
3-Nitroaniline	ND		10	2.3	ug/L		10/25/19 10:20	10/25/19 18:42	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		10/25/19 10:20	10/25/19 18:42	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		10/25/19 10:20	10/25/19 18:42	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/25/19 10:20	10/25/19 18:42	1
4-Chloroaniline	ND		10	2.1	ug/L		10/25/19 10:20	10/25/19 18:42	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		10/25/19 10:20	10/25/19 18:42	1
4-Nitroaniline	ND		10	3.9	ug/L		10/25/19 10:20	10/25/19 18:42	1
4-Nitrophenol	ND		20	2.3	ug/L		10/25/19 10:20	10/25/19 18:42	1
Acenaphthene	ND		1.0	0.36	ug/L		10/25/19 10:20	10/25/19 18:42	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/25/19 10:20	10/25/19 18:42	1
Anthracene	ND		1.0	0.32	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzoic acid	ND		20	4.6	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzyl alcohol	ND		20	3.1	ug/L		10/25/19 10:20	10/25/19 18:42	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/25/19 10:20	10/25/19 18:42	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/25/19 10:20	10/25/19 18:42	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/25/19 10:20	10/25/19 18:42	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/25/19 10:20	10/25/19 18:42	1
Chrysene	ND		0.50	0.14	ug/L		10/25/19 10:20	10/25/19 18:42	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		10/25/19 10:20	10/25/19 18:42	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/25/19 10:20	10/25/19 18:42	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/25/19 10:20	10/25/19 18:42	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/25/19 10:20	10/25/19 18:42	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		10/25/19 10:20	10/25/19 18:42	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/25/19 10:20	10/25/19 18:42	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-511959/1-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		10/25/19 10:20	10/25/19 18:42	1
Fluoranthene	ND		1.0	0.32	ug/L		10/25/19 10:20	10/25/19 18:42	1
Fluorene	ND		1.0	0.38	ug/L		10/25/19 10:20	10/25/19 18:42	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		10/25/19 10:20	10/25/19 18:42	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		10/25/19 10:20	10/25/19 18:42	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/25/19 10:20	10/25/19 18:42	1
Hexachloroethane	ND		5.0	0.97	ug/L		10/25/19 10:20	10/25/19 18:42	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		10/25/19 10:20	10/25/19 18:42	1
Isophorone	ND		2.0	0.29	ug/L		10/25/19 10:20	10/25/19 18:42	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/25/19 10:20	10/25/19 18:42	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		10/25/19 10:20	10/25/19 18:42	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/25/19 10:20	10/25/19 18:42	1
Phenol	ND		5.0	0.36	ug/L		10/25/19 10:20	10/25/19 18:42	1
Pyrene	ND		1.0	0.48	ug/L		10/25/19 10:20	10/25/19 18:42	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		10/25/19 10:20	10/25/19 18:42	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/25/19 10:20	10/25/19 18:42	1
Phenanthrene	ND		1.0	0.35	ug/L		10/25/19 10:20	10/25/19 18:42	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		10/25/19 10:20	10/25/19 18:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		40 - 145	10/25/19 10:20	10/25/19 18:42	1
2-Fluorobiphenyl	99		34 - 110	10/25/19 10:20	10/25/19 18:42	1
2-Fluorophenol (Surr)	49		27 - 110	10/25/19 10:20	10/25/19 18:42	1
Nitrobenzene-d5 (Surr)	96		36 - 120	10/25/19 10:20	10/25/19 18:42	1
Phenol-d5 (Surr)	39		20 - 100	10/25/19 10:20	10/25/19 18:42	1
Terphenyl-d14 (Surr)	107		40 - 145	10/25/19 10:20	10/25/19 18:42	1

Lab Sample ID: LCS 500-511959/2-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	40.0	36.3		ug/L		91	26 - 110
1,2-Dichlorobenzene	40.0	34.3		ug/L		86	26 - 110
1,3-Dichlorobenzene	40.0	34.9		ug/L		87	22 - 110
1,4-Dichlorobenzene	40.0	35.0		ug/L		87	23 - 110
1-Methylnaphthalene	40.0	36.8		ug/L		92	38 - 110
bis(chloroisopropyl) ether	40.0	44.0		ug/L		110	38 - 110
2,3,4,6-Tetrachlorophenol	40.0	36.4		ug/L		91	44 - 118
2,4,5-Trichlorophenol	40.0	41.6		ug/L		104	63 - 120
2,4,6-Trichlorophenol	40.0	43.1		ug/L		108	62 - 110
2,4-Dichlorophenol	40.0	42.4		ug/L		106	62 - 110
2,4-Dinitrophenol	80.0	88.4		ug/L		110	37 - 130
2,4-Dinitrotoluene	40.0	45.3		ug/L		113	63 - 122
2,6-Dinitrotoluene	40.0	45.2		ug/L		113	63 - 119
3 & 4 Methylphenol	40.0	32.8		ug/L		82	53 - 110
2-Chloronaphthalene	40.0	39.4		ug/L		98	39 - 110
2-Chlorophenol	40.0	40.1		ug/L		100	59 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-511959/2-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	40.0	36.8		ug/L		92	34 - 110
2-Methylphenol	40.0	35.6		ug/L		89	53 - 110
2-Nitroaniline	40.0	43.2		ug/L		108	59 - 122
2-Nitrophenol	40.0	40.3		ug/L		101	58 - 110
3-Nitroaniline	40.0	41.0		ug/L		103	47 - 123
4,6-Dinitro-2-methylphenol	80.0	91.7		ug/L		115	50 - 117
4-Bromophenyl phenyl ether	40.0	43.8		ug/L		110	58 - 120
4-Chloro-3-methylphenol	40.0	42.1		ug/L		105	64 - 120
4-Chloroaniline	40.0	44.2		ug/L		111	35 - 128
4-Chlorophenyl phenyl ether	40.0	41.1		ug/L		103	47 - 112
4-Nitroaniline	40.0	33.5		ug/L		84	52 - 147
4-Nitrophenol	80.0	26.6		ug/L		33	20 - 110
Acenaphthene	40.0	41.2		ug/L		103	46 - 110
Acenaphthylene	40.0	41.2		ug/L		103	47 - 110
Anthracene	40.0	43.0		ug/L		107	67 - 110
Benzo[a]pyrene	40.0	44.8		ug/L		112	70 - 120
Benzo[b]fluoranthene	40.0	45.6		ug/L		114	69 - 123
Benzo[g,h,i]perylene	40.0	46.2		ug/L		115	70 - 120
Benzo[k]fluoranthene	40.0	45.7		ug/L		114	70 - 120
Benzoic acid	80.0	25.0		ug/L		31	10 - 100
Benzyl alcohol	40.0	38.0		ug/L		95	33 - 127
Bis(2-chloroethoxy)methane	40.0	39.2		ug/L		98	60 - 110
Bis(2-chloroethyl)ether	40.0	38.8		ug/L		97	49 - 110
Bis(2-ethylhexyl) phthalate	40.0	44.4		ug/L		111	69 - 120
Butyl benzyl phthalate	40.0	44.2		ug/L		110	68 - 120
Chrysene	40.0	43.8		ug/L		110	68 - 120
Dibenz(a,h)anthracene	40.0	46.7		ug/L		117	70 - 127
Dibenzofuran	40.0	42.3		ug/L		106	51 - 110
Diethyl phthalate	40.0	43.3		ug/L		108	62 - 120
Dimethyl phthalate	40.0	43.5		ug/L		109	63 - 120
Di-n-butyl phthalate	40.0	42.9		ug/L		107	70 - 120
Di-n-octyl phthalate	40.0	43.8		ug/L		109	70 - 122
Fluoranthene	40.0	44.9		ug/L		112	68 - 120
Fluorene	40.0	42.0		ug/L		105	53 - 120
Hexachlorobenzene	40.0	42.3		ug/L		106	61 - 120
Hexachlorobutadiene	40.0	33.5		ug/L		84	20 - 100
Hexachlorocyclopentadiene	40.0	27.2		ug/L		68	10 - 100
Hexachloroethane	40.0	32.9		ug/L		82	20 - 100
Indeno[1,2,3-cd]pyrene	40.0	46.8		ug/L		117	65 - 133
Isophorone	40.0	40.8		ug/L		102	57 - 110
Nitrobenzene	40.0	38.1		ug/L		95	53 - 110
N-Nitrosodi-n-propylamine	40.0	36.7		ug/L		92	58 - 110
N-Nitrosodiphenylamine	40.0	42.8		ug/L		107	66 - 110
Pentachlorophenol	80.0	59.8		ug/L		75	23 - 129
Phenol	40.0	20.4		ug/L		51	33 - 100
Pyrene	40.0	45.6	*	ug/L		114	70 - 110
2,4-Dimethylphenol	40.0	40.3		ug/L		101	51 - 110
Benzo[a]anthracene	40.0	43.5		ug/L		109	70 - 120
Phenanthrene	40.0	43.3		ug/L		108	65 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-511959/2-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	40.0	42.6		ug/L		107	60 - 132

Lab Sample ID: LCSD 500-511959/3-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511959

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	33.4		ug/L		84	26 - 110	8	20
1,2-Dichlorobenzene	40.0	32.2		ug/L		81	26 - 110	6	20
1,3-Dichlorobenzene	40.0	32.3		ug/L		81	22 - 110	8	20
1,4-Dichlorobenzene	40.0	32.3		ug/L		81	23 - 110	8	20
1-Methylnaphthalene	40.0	34.3		ug/L		86	38 - 110	7	20
bis(chloroisopropyl) ether	40.0	42.0		ug/L		105	38 - 110	5	20
2,3,4,6-Tetrachlorophenol	40.0	34.6		ug/L		86	44 - 118	5	20
2,4,5-Trichlorophenol	40.0	38.9		ug/L		97	63 - 120	7	20
2,4,6-Trichlorophenol	40.0	40.2		ug/L		101	62 - 110	7	20
2,4-Dichlorophenol	40.0	39.5		ug/L		99	62 - 110	7	20
2,4-Dinitrophenol	80.0	83.3		ug/L		104	37 - 130	6	20
2,4-Dinitrotoluene	40.0	42.8		ug/L		107	63 - 122	6	20
2,6-Dinitrotoluene	40.0	42.8		ug/L		107	63 - 119	5	20
3 & 4 Methylphenol	40.0	30.8		ug/L		77	53 - 110	6	20
2-Chloronaphthalene	40.0	37.1		ug/L		93	39 - 110	6	20
2-Chlorophenol	40.0	37.8		ug/L		94	59 - 110	6	20
2-Methylnaphthalene	40.0	34.1		ug/L		85	34 - 110	8	20
2-Methylphenol	40.0	33.8		ug/L		84	53 - 110	5	20
2-Nitroaniline	40.0	41.5		ug/L		104	59 - 122	4	20
2-Nitrophenol	40.0	38.0		ug/L		95	58 - 110	6	20
3-Nitroaniline	40.0	40.3		ug/L		101	47 - 123	2	20
4,6-Dinitro-2-methylphenol	80.0	84.6		ug/L		106	50 - 117	8	20
4-Bromophenyl phenyl ether	40.0	40.3		ug/L		101	58 - 120	8	20
4-Chloro-3-methylphenol	40.0	39.8		ug/L		99	64 - 120	6	20
4-Chloroaniline	40.0	43.5		ug/L		109	35 - 128	2	20
4-Chlorophenyl phenyl ether	40.0	38.9		ug/L		97	47 - 112	6	20
4-Nitroaniline	40.0	33.0		ug/L		83	52 - 147	1	20
4-Nitrophenol	80.0	26.4		ug/L		33	20 - 110	1	20
Acenaphthene	40.0	39.0		ug/L		97	46 - 110	6	20
Acenaphthylene	40.0	38.5		ug/L		96	47 - 110	7	20
Anthracene	40.0	40.0		ug/L		100	67 - 110	7	20
Benzo[a]pyrene	40.0	42.0		ug/L		105	70 - 120	6	20
Benzo[b]fluoranthene	40.0	41.2		ug/L		103	69 - 123	10	20
Benzo[g,h,i]perylene	40.0	43.9		ug/L		110	70 - 120	5	20
Benzo[k]fluoranthene	40.0	41.8		ug/L		105	70 - 120	9	20
Benzoic acid	80.0	14.7	J *	ug/L		18	10 - 100	52	20
Benzyl alcohol	40.0	36.0		ug/L		90	33 - 127	5	20
Bis(2-chloroethoxy)methane	40.0	36.7		ug/L		92	60 - 110	6	20
Bis(2-chloroethyl)ether	40.0	36.0		ug/L		90	49 - 110	7	20
Bis(2-ethylhexyl) phthalate	40.0	42.1		ug/L		105	69 - 120	5	20
Butyl benzyl phthalate	40.0	41.7		ug/L		104	68 - 120	6	20
Chrysene	40.0	41.9		ug/L		105	68 - 120	5	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-511959/3-A
Matrix: Water
Analysis Batch: 512017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511959

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	40.0	44.6		ug/L		111	70 - 127	5	20
Dibenzofuran	40.0	40.0		ug/L		100	51 - 110	6	20
Diethyl phthalate	40.0	41.2		ug/L		103	62 - 120	5	20
Dimethyl phthalate	40.0	41.0		ug/L		102	63 - 120	6	20
Di-n-butyl phthalate	40.0	40.2		ug/L		101	70 - 120	6	20
Di-n-octyl phthalate	40.0	41.0		ug/L		102	70 - 122	7	20
Fluoranthene	40.0	41.0		ug/L		103	68 - 120	9	20
Fluorene	40.0	38.9		ug/L		97	53 - 120	8	20
Hexachlorobenzene	40.0	40.3		ug/L		101	61 - 120	5	20
Hexachlorobutadiene	40.0	31.2		ug/L		78	20 - 100	7	20
Hexachlorocyclopentadiene	40.0	25.3		ug/L		63	10 - 100	7	20
Hexachloroethane	40.0	30.5		ug/L		76	20 - 100	8	20
Indeno[1,2,3-cd]pyrene	40.0	44.6		ug/L		111	65 - 133	5	20
Isophorone	40.0	37.7		ug/L		94	57 - 110	8	20
Nitrobenzene	40.0	35.7		ug/L		89	53 - 110	6	20
N-Nitrosodi-n-propylamine	40.0	34.4		ug/L		86	58 - 110	6	20
N-Nitrosodiphenylamine	40.0	39.5		ug/L		99	66 - 110	8	20
Pentachlorophenol	80.0	53.5		ug/L		67	23 - 129	11	20
Phenol	40.0	18.5		ug/L		46	33 - 100	10	20
Pyrene	40.0	42.5		ug/L		106	70 - 110	7	20
2,4-Dimethylphenol	40.0	37.6		ug/L		94	51 - 110	7	20
Benzo[a]anthracene	40.0	41.7		ug/L		104	70 - 120	4	20
Phenanthrene	40.0	40.4		ug/L		101	65 - 120	7	20
3,3'-Dichlorobenzidine	40.0	41.3		ug/L		103	60 - 132	3	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-499280/1-A
Matrix: Water
Analysis Batch: 500349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/21/19 15:27	10/26/19 00:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		24 - 146				10/21/19 15:27	10/26/19 00:58	1
2-Fluorobiphenyl	84		37 - 120				10/21/19 15:27	10/26/19 00:58	1
2-Fluorophenol (Surr)	50		10 - 120				10/21/19 15:27	10/26/19 00:58	1
Nitrobenzene-d5 (Surr)	77		26 - 120				10/21/19 15:27	10/26/19 00:58	1
Phenol-d5 (Surr)	35		11 - 120				10/21/19 15:27	10/26/19 00:58	1
p-Terphenyl-d14	97		64 - 127				10/21/19 15:27	10/26/19 00:58	1

Lab Sample ID: LCS 480-499280/2-A
Matrix: Water
Analysis Batch: 500349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	16.0	12.8		ug/L		80	10 - 131

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 480-499280/2-A
Matrix: Water
Analysis Batch: 500349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499280

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	107		24 - 146
2-Fluorobiphenyl	96		37 - 120
2-Fluorophenol (Surr)	55		10 - 120
Nitrobenzene-d5 (Surr)	98		26 - 120
Phenol-d5 (Surr)	39		11 - 120
p-Terphenyl-d14	111		64 - 127

Lab Sample ID: LCSD 480-499280/3-A
Matrix: Water
Analysis Batch: 500349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	16.0	14.3		ug/L		89	10 - 131	11	171

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	119		24 - 146
2-Fluorobiphenyl	102		37 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	105		26 - 120
Phenol-d5 (Surr)	43		11 - 120
p-Terphenyl-d14	117		64 - 127

QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

GC/MS VOA

Analysis Batch: 500429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-1	SUPE-TB-03-101719	Total/NA	Water	8260C	
480-161133-2	SUPE-W-30A-101719	Total/NA	Water	8260C	
480-161133-3	SUPE-EB-03-101719	Total/NA	Water	8260C	
480-161133-4	SUPE-W-10AR2-101719	Total/NA	Water	8260C	
480-161133-5	SUPE-W-04AR2-101719	Total/NA	Water	8260C	
MB 480-500429/7	Method Blank	Total/NA	Water	8260C	
LCS 480-500429/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 500526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-2 - DL	SUPE-W-30A-101719	Total/NA	Water	8260C	
MB 480-500526/8	Method Blank	Total/NA	Water	8260C	
LCS 480-500526/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 499280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-2	SUPE-W-30A-101719	Total/NA	Water	3510C	
480-161133-3	SUPE-EB-03-101719	Total/NA	Water	3510C	
480-161133-4	SUPE-W-10AR2-101719	Total/NA	Water	3510C	
480-161133-5	SUPE-W-04AR2-101719	Total/NA	Water	3510C	
MB 480-499280/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-499280/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-499280/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 500349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-2	SUPE-W-30A-101719	Total/NA	Water	8270D LL	499280
480-161133-3	SUPE-EB-03-101719	Total/NA	Water	8270D LL	499280
480-161133-4	SUPE-W-10AR2-101719	Total/NA	Water	8270D LL	499280
480-161133-5	SUPE-W-04AR2-101719	Total/NA	Water	8270D LL	499280
MB 480-499280/1-A	Method Blank	Total/NA	Water	8270D LL	499280
LCS 480-499280/2-A	Lab Control Sample	Total/NA	Water	8270D LL	499280
LCSD 480-499280/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	499280

Prep Batch: 511959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-2	SUPE-W-30A-101719	Total/NA	Water	3510C	
480-161133-3	SUPE-EB-03-101719	Total/NA	Water	3510C	
480-161133-4 - DL	SUPE-W-10AR2-101719	Total/NA	Water	3510C	
480-161133-4	SUPE-W-10AR2-101719	Total/NA	Water	3510C	
480-161133-5	SUPE-W-04AR2-101719	Total/NA	Water	3510C	
MB 500-511959/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-511959/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-511959/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 512017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-2	SUPE-W-30A-101719	Total/NA	Water	8270D	511959
480-161133-3	SUPE-EB-03-101719	Total/NA	Water	8270D	511959

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

GC/MS Semi VOA (Continued)

Analysis Batch: 512017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-4	SUPE-W-10AR2-101719	Total/NA	Water	8270D	511959
480-161133-5	SUPE-W-04AR2-101719	Total/NA	Water	8270D	511959
MB 500-511959/1-A	Method Blank	Total/NA	Water	8270D	511959
LCS 500-511959/2-A	Lab Control Sample	Total/NA	Water	8270D	511959
LCSD 500-511959/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	511959

Analysis Batch: 512226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161133-4 - DL	SUPE-W-10AR2-101719	Total/NA	Water	8270D	511959

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-TB-03-101719

Lab Sample ID: 480-161133-1

Date Collected: 10/17/19 00:00

Matrix: Water

Date Received: 10/18/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500429	10/27/19 01:19	BTP	TAL BUF

Client Sample ID: SUPE-W-30A-101719

Lab Sample ID: 480-161133-2

Date Collected: 10/17/19 11:02

Matrix: Water

Date Received: 10/18/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500429	10/27/19 01:44	BTP	TAL BUF
Total/NA	Analysis	8260C	DL	2	500526	10/27/19 11:08	BTP	TAL BUF
Total/NA	Prep	3510C			511959	10/25/19 10:20	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512017	10/25/19 19:30	NRJ	TAL CHI
Total/NA	Prep	3510C			499280	10/21/19 15:27	ATG	TAL BUF
Total/NA	Analysis	8270D LL		10	500349	10/26/19 02:24	PJQ	TAL BUF

Client Sample ID: SUPE-EB-03-101719

Lab Sample ID: 480-161133-3

Date Collected: 10/17/19 12:02

Matrix: Water

Date Received: 10/18/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500429	10/27/19 02:08	BTP	TAL BUF
Total/NA	Prep	3510C			511959	10/25/19 10:20	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512017	10/25/19 19:54	NRJ	TAL CHI
Total/NA	Prep	3510C			499280	10/21/19 15:27	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500349	10/26/19 02:53	PJQ	TAL BUF

Client Sample ID: SUPE-W-10AR2-101719

Lab Sample ID: 480-161133-4

Date Collected: 10/17/19 13:11

Matrix: Water

Date Received: 10/18/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500429	10/27/19 02:32	BTP	TAL BUF
Total/NA	Prep	3510C	DL		511959	10/25/19 10:20	DAK	TAL CHI
Total/NA	Analysis	8270D	DL	2	512226	10/28/19 12:55	AJD	TAL CHI
Total/NA	Prep	3510C			511959	10/25/19 10:20	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512017	10/25/19 20:18	NRJ	TAL CHI
Total/NA	Prep	3510C			499280	10/21/19 15:27	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	500349	10/26/19 03:21	PJQ	TAL BUF

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Date Collected: 10/17/19 09:04

Matrix: Water

Date Received: 10/18/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500429	10/27/19 02:56	BTP	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Client Sample ID: SUPE-W-04AR2-101719

Lab Sample ID: 480-161133-5

Date Collected: 10/17/19 09:04

Matrix: Water

Date Received: 10/18/19 09:45

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3510C			511959	10/25/19 10:20	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512017	10/25/19 20:42	NRJ	TAL CHI
Total/NA	Prep	3510C			499280	10/21/19 15:27	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	500349	10/26/19 03:49	PJQ	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	998310390	08-31-20

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

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



Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-161133-1	SUPE-TB-03-101719	Water	10/17/19 00:00	10/18/19 09:45	
480-161133-2	SUPE-W-30A-101719	Water	10/17/19 11:02	10/18/19 09:45	
480-161133-3	SUPE-EB-03-101719	Water	10/17/19 12:02	10/18/19 09:45	
480-161133-4	SUPE-W-10AR2-101719	Water	10/17/19 13:11	10/18/19 09:45	
480-161133-5	SUPE-W-04AR2-101719	Water	10/17/19 09:04	10/18/19 09:45	

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**CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS
REQUEST FORM**

REF.# 501198

501198

Client: Beazer East, Inc.
Contact: (724) 858-5953
btrask.2006@f-ts.com

Company: Field & Technical Services
Address: 200 Third Avenue
Carnegie, PA 15106
(412) 279-3363

Project Name: Superior 2019 2SA Sampling
Project Number: OM-0556-19
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2019 2SA Sampling_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					HCL	None		
10/17/2019	0000	GW	SUPE-TB-03-101719	2	2	0		
10/17/2019	1102	GW	SUPE-W-30A-101719	5	2	3		
10/17/2019	1202	GW	SUPE-EB-03-101719	5	2	3		
10/17/2019	1311	GW	SUPE-W-10AR2-101719	5	2	3		
10/17/19	12904	GW	Supe-W-CHARZ-101719	5	2	3		



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	<input type="checkbox"/> Rush
Printed Name: Ben Trask	Printed Name:	Printed Name: <i>[Signature]</i>	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm:	Firm: TA/EF	Firm:	
Date/Time: 10/17/2019 1432	Date/Time:	Date/Time: 10-18-19/945	Date/Time:	

3.4 IR# 1, ICE



Bottle Order Information

Bottle Order: Superior, WI Semiannual Groundwater
 Bottle Order #: 8716
 Request From Client: 9/19/2019
 Date Order Posted: 9/26/2017 12:27:54PM
 Order Status: Ready To Process
 Prepared By: Veronica Bortot
Deliver By Date: 10/9/2019 11:59:00PM
 Lab Project Number: 18015916

Order Completion Information

Creator: Veronica Bortot
 Filled by:
 Sent Date:
 Sent Via:
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
15	3	45	Amber Glass 1 liter - unpreserved	None	8270D_LL - Semivolatiles, project list	Water	Normal		✓
15	3	*45	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8260C - Volatiles, project list	Water	Normal		✓
2	2	4	Amber Glass 1 liter - unpreserved	None	8270D_LL - Semivolatiles	Water	Normal		✓
2	3	6	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8260C - (MOD) Volatiles, project list	Water	Trip Blank		✓
0		0	No Container - VOA	None		Water	Reagent Water		✓

Notes to Field Staff:



Scan QR code for field sampler instructions

Please send samples to TA Buffalo for analysis

TestAmerica Buffalo
 10 Hazelwood Drive
 Amherst NY 14228-2223
 716-691-2600

Health and Safety Notes:

Preservative: Comment

Hydrochloric Acid

CAUTION! CONTAINS 1:1 HYDROCHLORIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Requisitioned By <i>[Signature]</i>	Company	Date	Time	Received By	Company	Seal #
Requisitioned By	Company	Date	Time	Received By	Company	Seal #

Please notify your PM immediately if an error is found in shipment.

Go to <http://www.testamericainc.com/customer-support/specialized-instructions-for-field-samplers/> for field sampler instructions.



Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving				Phone:	Bortot, Veronica		480-52568, 1
Company: TestAmerica Laboratories, Inc.				E-Mail:	veronica.bortot@testamericainc.com	State of Origin:	Page:
Address: 2417 Bond Street, City: University Park State, Zip: IL, 60484 480-161133 COC				Accreditations Required (See note): NELAP - Texas	Texas		Page 1 of 1
Project Name: Superior, WI Semiannual Groundwater				Project #: 18015916	Analysis Requested		Job #: 480-161133-1
Site:				SSOW#:	Preservation Codes:		
Due Date Requested: 11/1/2019				TAT Requested (days):	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		Other:
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)
SUPE-W-30A-101719 (480-161133-2)				10/17/19	11:02 Central		Water
SUPE-EB-03-101719 (480-161133-3)				10/17/19	12:02 Central		Water
SUPE-W-10AR2-101719 (480-161133-4)				10/17/19	13:11 Central		Water
SUPE-W-04AR2-101719 (480-161133-5)				10/17/19	09:04 Central		Water
Field Filtered Sample (Yes or No)				Perform MS/MSD (Yes or No)	8270D/3510C (MOD) Semivolatiles, project list with n	Total Number of containers	
Preservation Code:							Special Instructions/Note:
							Refer to PT-PM-WI-006 for Wisconsin Protocol
							Refer to PT-PM-WI-006 for Wisconsin Protocol
							Refer to PT-PM-WI-006 for Wisconsin Protocol
							Refer to PT-PM-WI-006 for Wisconsin Protocol

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

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>John Kow</i>	Date/Time: <i>10/23/19 17:46</i>	Company: <i>TA</i>	Received by: <i>Blair Scott</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>1c0</i>
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Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161133-1

Login Number: 161133

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Manhardt, Kara M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	FTS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161133-1

Login Number: 161133

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

List Creation: 10/25/19 09:34 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-161258-1

Client Project/Site: Superior, WI Semiannual Groundwater
Revision: 3

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
11/22/2019 11:49:49 AM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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



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Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Job ID: 480-161258-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-161258-1

Revised : to remove PCP from full list

Revised: to correct formatter

Comments

No additional comments.

Receipt

The samples were received on 10/17/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.8° C, 3.2° C, 3.4° C and 4.1° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-500393 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SUPE-TB -02-101619, SUPE-W-06C-101619, SUPE-W-12A-101619, SUPE-EB-02-101619, SUPE-W-12CR-101619 and SUPE-M-99A-101619.

Method 8260C: The following volatile samples were analyzed with significant headspace in the sample containers: SUPE-W-30C-101619 and SUPE-W-06A-101619. Significant headspace is defined as a bubble greater than 6 mm in diameter.

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

GC/MS Semi VOA Buffalo

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 480-500726 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: SUPE-W-30C-101619, SUPE-W-06A-101619, SUPE-W-06C-101619, SUPE-W-12A-101619, SUPE-EB-02-101619, SUPE-W-12CR-101619, SUPE-W-18D-101619 and SUPE-M-99A-101619

Method 8270D LL: Surrogate recovery for the following sample was outside the upper control limit: SUPE-W-12CR-101619. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

GC/MS Semi VOA Chicago

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-511565 and analytical batch 500-511690 recovered outside control limits for the following analyte: Pyrene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The following samples contained one acid surrogate outside acceptance limits: SUPE-W-12CR-101619. The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

Organic Prep

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

Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-TB -02-101619

Lab Sample ID: 480-161258-1

No Detections.

Client Sample ID: SUPE-W-30C-101619

Lab Sample ID: 480-161258-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	12	J	20	4.5	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-06A-101619

Lab Sample ID: 480-161258-3

No Detections.

Client Sample ID: SUPE-W-06C-101619

Lab Sample ID: 480-161258-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	12	J	19	4.4	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-12A-101619

Lab Sample ID: 480-161258-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	12	J	19	4.4	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-EB-02-101619

Lab Sample ID: 480-161258-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	12	J	20	4.6	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-12CR-101619

Lab Sample ID: 480-161258-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4,6-Trichlorophenol	3.4	J	5.0	1.1	ug/L	1		8270D	Total/NA
2-Chloronaphthalene	9.9		2.0	0.34	ug/L	1		8270D	Total/NA
Benzoic acid	12	J	20	4.6	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-18D-101619

Lab Sample ID: 480-161258-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	12	J	20	4.5	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-M-99A-101619

Lab Sample ID: 480-161258-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	12	J	20	4.5	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-TB -02-101619

Lab Sample ID: 480-161258-1

Date Collected: 10/16/19 00:00

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 11:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 11:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 11:17	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 11:17	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 11:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 11:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 11:17	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 11:17	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 11:17	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 11:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 11:17	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 11:17	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 11:17	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 11:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 11:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					10/26/19 11:17	1
4-Bromofluorobenzene (Surr)	96		73 - 120					10/26/19 11:17	1
Dibromofluoromethane (Surr)	97		75 - 123					10/26/19 11:17	1
Toluene-d8 (Surr)	93		80 - 120					10/26/19 11:17	1

Client Sample ID: SUPE-W-30C-101619

Lab Sample ID: 480-161258-2

Date Collected: 10/16/19 09:42

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 13:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 13:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 13:54	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 13:54	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 13:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 13:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 13:54	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 13:54	1
Naphthalene	ND		1.0	0.43	ug/L			10/27/19 13:54	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 13:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 13:54	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 13:54	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 13:54	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 13:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					10/27/19 13:54	1
4-Bromofluorobenzene (Surr)	96		73 - 120					10/27/19 13:54	1
Dibromofluoromethane (Surr)	99		75 - 123					10/27/19 13:54	1
Toluene-d8 (Surr)	92		80 - 120					10/27/19 13:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-30C-101619

Lab Sample ID: 480-161258-2

Date Collected: 10/16/19 09:42

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	104		24 - 146				10/22/19 16:11	10/28/19 19:53	1
2-Fluorobiphenyl	99		37 - 120				10/22/19 16:11	10/28/19 19:53	1
2-Fluorophenol (Surr)	55		10 - 120				10/22/19 16:11	10/28/19 19:53	1
Nitrobenzene-d5 (Surr)	95		26 - 120				10/22/19 16:11	10/28/19 19:53	1
Phenol-d5 (Surr)	37		11 - 120				10/22/19 16:11	10/28/19 19:53	1
p-Terphenyl-d14	107		64 - 127				10/22/19 16:11	10/28/19 19:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/28/19 22:54	1
1,2-Dichlorobenzene	ND		2.0	0.28	ug/L		10/23/19 15:07	10/28/19 22:54	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/28/19 22:54	1
1,4-Dichlorobenzene	ND		2.0	0.26	ug/L		10/23/19 15:07	10/28/19 22:54	1
1-Methylnaphthalene	ND		2.0	0.49	ug/L		10/23/19 15:07	10/28/19 22:54	1
bis(chloroisopropyl) ether	ND		2.0	0.29	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,3,4,6-Tetrachlorophenol	ND		4.9	1.5	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,4,5-Trichlorophenol	ND		9.8	2.2	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,4,6-Trichlorophenol	ND		4.9	1.1	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,4-Dichlorophenol	ND		9.8	2.2	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,4-Dinitrophenol	ND		20	7.3	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,4-Dinitrotoluene	ND		0.98	0.29	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,6-Dinitrotoluene	ND		0.98	0.12	ug/L		10/23/19 15:07	10/28/19 22:54	1
3 & 4 Methylphenol	ND		2.0	0.43	ug/L		10/23/19 15:07	10/28/19 22:54	1
2-Chloronaphthalene	ND		2.0	0.33	ug/L		10/23/19 15:07	10/28/19 22:54	1
2-Chlorophenol	ND		4.9	0.79	ug/L		10/23/19 15:07	10/28/19 22:54	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/28/19 22:54	1
2-Methylphenol	ND		2.0	0.30	ug/L		10/23/19 15:07	10/28/19 22:54	1
2-Nitroaniline	ND		4.9	1.1	ug/L		10/23/19 15:07	10/28/19 22:54	1
2-Nitrophenol	ND		9.8	2.1	ug/L		10/23/19 15:07	10/28/19 22:54	1
3-Nitroaniline	ND		9.8	2.2	ug/L		10/23/19 15:07	10/28/19 22:54	1
4,6-Dinitro-2-methylphenol	ND		20	4.8	ug/L		10/23/19 15:07	10/28/19 22:54	1
4-Bromophenyl phenyl ether	ND		4.9	0.89	ug/L		10/23/19 15:07	10/28/19 22:54	1
4-Chloro-3-methylphenol	ND		9.8	2.2	ug/L		10/23/19 15:07	10/28/19 22:54	1
4-Chloroaniline	ND		9.8	2.1	ug/L		10/23/19 15:07	10/28/19 22:54	1
4-Chlorophenyl phenyl ether	ND		4.9	0.79	ug/L		10/23/19 15:07	10/28/19 22:54	1
4-Nitroaniline	ND		9.8	3.9	ug/L		10/23/19 15:07	10/28/19 22:54	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/28/19 22:54	1
Acenaphthene	ND		0.98	0.35	ug/L		10/23/19 15:07	10/28/19 22:54	1
Acenaphthylene	ND		0.98	0.31	ug/L		10/23/19 15:07	10/28/19 22:54	1
Anthracene	ND		0.98	0.31	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzo[b]fluoranthene	ND		0.20	0.057	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzo[g,h,i]perylene	ND		0.98	0.41	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzo[k]fluoranthene	ND		0.20	0.073	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzoic acid	12 J		20	4.5	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzyl alcohol	ND		20	3.0	ug/L		10/23/19 15:07	10/28/19 22:54	1
Bis(2-chloroethoxy)methane	ND		2.0	0.29	ug/L		10/23/19 15:07	10/28/19 22:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-30C-101619

Lab Sample ID: 480-161258-2

Date Collected: 10/16/19 09:42

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		2.0	0.34	ug/L		10/23/19 15:07	10/28/19 22:54	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.4	ug/L		10/23/19 15:07	10/28/19 22:54	1
Butyl benzyl phthalate	ND		2.0	0.26	ug/L		10/23/19 15:07	10/28/19 22:54	1
Chrysene	ND		0.49	0.14	ug/L		10/23/19 15:07	10/28/19 22:54	1
Dibenz(a,h)anthracene	ND		0.29	0.063	ug/L		10/23/19 15:07	10/28/19 22:54	1
Dibenzofuran	ND		2.0	0.34	ug/L		10/23/19 15:07	10/28/19 22:54	1
Diethyl phthalate	ND		2.0	0.43	ug/L		10/23/19 15:07	10/28/19 22:54	1
Dimethyl phthalate	ND		2.0	0.37	ug/L		10/23/19 15:07	10/28/19 22:54	1
Di-n-butyl phthalate	ND		4.9	0.79	ug/L		10/23/19 15:07	10/28/19 22:54	1
Di-n-octyl phthalate	ND		9.8	2.4	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.5	ug/L		10/23/19 15:07	10/28/19 22:54	1
Fluoranthene	ND		0.98	0.31	ug/L		10/23/19 15:07	10/28/19 22:54	1
Fluorene	ND		0.98	0.37	ug/L		10/23/19 15:07	10/28/19 22:54	1
Hexachlorobenzene	ND		0.49	0.14	ug/L		10/23/19 15:07	10/28/19 22:54	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		10/23/19 15:07	10/28/19 22:54	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/23/19 15:07	10/28/19 22:54	1
Hexachloroethane	ND		4.9	0.95	ug/L		10/23/19 15:07	10/28/19 22:54	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.082	ug/L		10/23/19 15:07	10/28/19 22:54	1
Isophorone	ND		2.0	0.28	ug/L		10/23/19 15:07	10/28/19 22:54	1
Nitrobenzene	ND		0.98	0.44	ug/L		10/23/19 15:07	10/28/19 22:54	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		10/23/19 15:07	10/28/19 22:54	1
N-Nitrosodiphenylamine	ND		2.0	0.33	ug/L		10/23/19 15:07	10/28/19 22:54	1
Phenol	ND		4.9	0.35	ug/L		10/23/19 15:07	10/28/19 22:54	1
Pyrene	ND *		0.98	0.47	ug/L		10/23/19 15:07	10/28/19 22:54	1
2,4-Dimethylphenol	ND		9.8	3.3	ug/L		10/23/19 15:07	10/28/19 22:54	1
Benzo[a]anthracene	ND		0.20	0.043	ug/L		10/23/19 15:07	10/28/19 22:54	1
Phenanthrene	ND		0.98	0.34	ug/L		10/23/19 15:07	10/28/19 22:54	1
3,3'-Dichlorobenzidine	ND		4.9	0.92	ug/L		10/23/19 15:07	10/28/19 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	142		40 - 145	10/23/19 15:07	10/28/19 22:54	1
2-Fluorobiphenyl	101		34 - 110	10/23/19 15:07	10/28/19 22:54	1
2-Fluorophenol (Surr)	39		27 - 110	10/23/19 15:07	10/28/19 22:54	1
Nitrobenzene-d5 (Surr)	86		36 - 120	10/23/19 15:07	10/28/19 22:54	1
Phenol-d5 (Surr)	31		20 - 100	10/23/19 15:07	10/28/19 22:54	1
Terphenyl-d14 (Surr)	106		40 - 145	10/23/19 15:07	10/28/19 22:54	1

Client Sample ID: SUPE-W-06A-101619

Lab Sample ID: 480-161258-3

Date Collected: 10/16/19 11:11

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 14:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 14:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 14:18	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 14:18	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 14:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 14:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 14:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-06A-101619

Lab Sample ID: 480-161258-3

Date Collected: 10/16/19 11:11

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 14:18	1
Naphthalene	ND		1.0	0.43	ug/L			10/27/19 14:18	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 14:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 14:18	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 14:18	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 14:18	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 14:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/27/19 14:18	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/27/19 14:18	1
Dibromofluoromethane (Surr)	102		75 - 123		10/27/19 14:18	1
Toluene-d8 (Surr)	93		80 - 120		10/27/19 14:18	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		24 - 146	10/22/19 16:11	10/28/19 20:22	1
2-Fluorobiphenyl	97		37 - 120	10/22/19 16:11	10/28/19 20:22	1
2-Fluorophenol (Surr)	52		10 - 120	10/22/19 16:11	10/28/19 20:22	1
Nitrobenzene-d5 (Surr)	91		26 - 120	10/22/19 16:11	10/28/19 20:22	1
Phenol-d5 (Surr)	36		11 - 120	10/22/19 16:11	10/28/19 20:22	1
p-Terphenyl-d14	64		64 - 127	10/22/19 16:11	10/28/19 20:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/23/19 15:07	10/28/19 23:18	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/28/19 23:18	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/28/19 23:18	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/28/19 23:18	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		10/23/19 15:07	10/28/19 23:18	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/23/19 15:07	10/28/19 23:18	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/23/19 15:07	10/28/19 23:18	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		10/23/19 15:07	10/28/19 23:18	1
2-Chlorophenol	ND		5.0	0.80	ug/L		10/23/19 15:07	10/28/19 23:18	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/28/19 23:18	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/23/19 15:07	10/28/19 23:18	1
2-Nitroaniline	ND		5.0	1.1	ug/L		10/23/19 15:07	10/28/19 23:18	1
2-Nitrophenol	ND		10	2.1	ug/L		10/23/19 15:07	10/28/19 23:18	1
3-Nitroaniline	ND		10	2.3	ug/L		10/23/19 15:07	10/28/19 23:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-06A-101619

Lab Sample ID: 480-161258-3

Date Collected: 10/16/19 11:11

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		10/23/19 15:07	10/28/19 23:18	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		10/23/19 15:07	10/28/19 23:18	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/23/19 15:07	10/28/19 23:18	1
4-Chloroaniline	ND		10	2.1	ug/L		10/23/19 15:07	10/28/19 23:18	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		10/23/19 15:07	10/28/19 23:18	1
4-Nitroaniline	ND		10	3.9	ug/L		10/23/19 15:07	10/28/19 23:18	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/28/19 23:18	1
Acenaphthene	ND		1.0	0.36	ug/L		10/23/19 15:07	10/28/19 23:18	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/28/19 23:18	1
Anthracene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzoic acid	ND		20	4.5	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzyl alcohol	ND		20	3.0	ug/L		10/23/19 15:07	10/28/19 23:18	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/23/19 15:07	10/28/19 23:18	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/23/19 15:07	10/28/19 23:18	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/23/19 15:07	10/28/19 23:18	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/28/19 23:18	1
Chrysene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/28/19 23:18	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		10/23/19 15:07	10/28/19 23:18	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/23/19 15:07	10/28/19 23:18	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/23/19 15:07	10/28/19 23:18	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/23/19 15:07	10/28/19 23:18	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		10/23/19 15:07	10/28/19 23:18	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		10/23/19 15:07	10/28/19 23:18	1
Fluoranthene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/28/19 23:18	1
Fluorene	ND		1.0	0.38	ug/L		10/23/19 15:07	10/28/19 23:18	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/28/19 23:18	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		10/23/19 15:07	10/28/19 23:18	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/23/19 15:07	10/28/19 23:18	1
Hexachloroethane	ND		5.0	0.97	ug/L		10/23/19 15:07	10/28/19 23:18	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		10/23/19 15:07	10/28/19 23:18	1
Isophorone	ND		2.0	0.29	ug/L		10/23/19 15:07	10/28/19 23:18	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/23/19 15:07	10/28/19 23:18	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		10/23/19 15:07	10/28/19 23:18	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/23/19 15:07	10/28/19 23:18	1
Phenol	ND		5.0	0.36	ug/L		10/23/19 15:07	10/28/19 23:18	1
Pyrene	ND *		1.0	0.48	ug/L		10/23/19 15:07	10/28/19 23:18	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		10/23/19 15:07	10/28/19 23:18	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/23/19 15:07	10/28/19 23:18	1
Phenanthrene	ND		1.0	0.35	ug/L		10/23/19 15:07	10/28/19 23:18	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		10/23/19 15:07	10/28/19 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	140		40 - 145	10/23/19 15:07	10/28/19 23:18	1
2-Fluorobiphenyl	98		34 - 110	10/23/19 15:07	10/28/19 23:18	1
2-Fluorophenol (Surr)	37		27 - 110	10/23/19 15:07	10/28/19 23:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-06A-101619

Lab Sample ID: 480-161258-3

Date Collected: 10/16/19 11:11

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		36 - 120	10/23/19 15:07	10/28/19 23:18	1
Phenol-d5 (Surr)	30		20 - 100	10/23/19 15:07	10/28/19 23:18	1
Terphenyl-d14 (Surr)	89		40 - 145	10/23/19 15:07	10/28/19 23:18	1

Client Sample ID: SUPE-W-06C-101619

Lab Sample ID: 480-161258-4

Date Collected: 10/16/19 12:13

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 12:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 12:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 12:29	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 12:29	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 12:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 12:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 12:29	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 12:29	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 12:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 12:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 12:29	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 12:29	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 12:29	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 12:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		10/26/19 12:29	1
4-Bromofluorobenzene (Surr)	107		73 - 120		10/26/19 12:29	1
Dibromofluoromethane (Surr)	106		75 - 123		10/26/19 12:29	1
Toluene-d8 (Surr)	102		80 - 120		10/26/19 12:29	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	104		24 - 146	10/22/19 16:11	10/28/19 20:50	1
2-Fluorobiphenyl	103		37 - 120	10/22/19 16:11	10/28/19 20:50	1
2-Fluorophenol (Surr)	55		10 - 120	10/22/19 16:11	10/28/19 20:50	1
Nitrobenzene-d5 (Surr)	97		26 - 120	10/22/19 16:11	10/28/19 20:50	1
Phenol-d5 (Surr)	36		11 - 120	10/22/19 16:11	10/28/19 20:50	1
p-Terphenyl-d14	103		64 - 127	10/22/19 16:11	10/28/19 20:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		10/23/19 15:07	10/28/19 23:42	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		10/23/19 15:07	10/28/19 23:42	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		10/23/19 15:07	10/28/19 23:42	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		10/23/19 15:07	10/28/19 23:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-06C-101619

Lab Sample ID: 480-161258-4

Date Collected: 10/16/19 12:13

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		1.9	0.48	ug/L		10/23/19 15:07	10/28/19 23:42	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.5	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,4,5-Trichlorophenol	ND		9.6	2.2	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,4,6-Trichlorophenol	ND		4.8	1.1	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,4-Dichlorophenol	ND		9.6	2.2	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,4-Dinitrotoluene	ND		0.96	0.29	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,6-Dinitrotoluene	ND		0.96	0.12	ug/L		10/23/19 15:07	10/28/19 23:42	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		10/23/19 15:07	10/28/19 23:42	1
2-Chloronaphthalene	ND		1.9	0.33	ug/L		10/23/19 15:07	10/28/19 23:42	1
2-Chlorophenol	ND		4.8	0.77	ug/L		10/23/19 15:07	10/28/19 23:42	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		10/23/19 15:07	10/28/19 23:42	1
2-Methylphenol	ND		1.9	0.30	ug/L		10/23/19 15:07	10/28/19 23:42	1
2-Nitroaniline	ND		4.8	1.0	ug/L		10/23/19 15:07	10/28/19 23:42	1
2-Nitrophenol	ND		9.6	2.1	ug/L		10/23/19 15:07	10/28/19 23:42	1
3-Nitroaniline	ND		9.6	2.2	ug/L		10/23/19 15:07	10/28/19 23:42	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		10/23/19 15:07	10/28/19 23:42	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		10/23/19 15:07	10/28/19 23:42	1
4-Chloro-3-methylphenol	ND		9.6	2.1	ug/L		10/23/19 15:07	10/28/19 23:42	1
4-Chloroaniline	ND		9.6	2.0	ug/L		10/23/19 15:07	10/28/19 23:42	1
4-Chlorophenyl phenyl ether	ND		4.8	0.78	ug/L		10/23/19 15:07	10/28/19 23:42	1
4-Nitroaniline	ND		9.6	3.8	ug/L		10/23/19 15:07	10/28/19 23:42	1
4-Nitrophenol	ND		19	2.2	ug/L		10/23/19 15:07	10/28/19 23:42	1
Acenaphthene	ND		0.96	0.35	ug/L		10/23/19 15:07	10/28/19 23:42	1
Acenaphthylene	ND		0.96	0.31	ug/L		10/23/19 15:07	10/28/19 23:42	1
Anthracene	ND		0.96	0.31	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzo[a]pyrene	ND		0.19	0.054	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzo[b]fluoranthene	ND		0.19	0.056	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzo[g,h,i]perylene	ND		0.96	0.40	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzo[k]fluoranthene	ND		0.19	0.071	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzoic acid	12 J		19	4.4	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzyl alcohol	ND		19	2.9	ug/L		10/23/19 15:07	10/28/19 23:42	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		10/23/19 15:07	10/28/19 23:42	1
Bis(2-chloroethyl)ether	ND		1.9	0.34	ug/L		10/23/19 15:07	10/28/19 23:42	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.3	ug/L		10/23/19 15:07	10/28/19 23:42	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		10/23/19 15:07	10/28/19 23:42	1
Chrysene	ND		0.48	0.13	ug/L		10/23/19 15:07	10/28/19 23:42	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		10/23/19 15:07	10/28/19 23:42	1
Dibenzofuran	ND		1.9	0.34	ug/L		10/23/19 15:07	10/28/19 23:42	1
Diethyl phthalate	ND		1.9	0.42	ug/L		10/23/19 15:07	10/28/19 23:42	1
Dimethyl phthalate	ND		1.9	0.36	ug/L		10/23/19 15:07	10/28/19 23:42	1
Di-n-butyl phthalate	ND		4.8	0.77	ug/L		10/23/19 15:07	10/28/19 23:42	1
Di-n-octyl phthalate	ND		9.6	2.4	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		10/23/19 15:07	10/28/19 23:42	1
Fluoranthene	ND		0.96	0.31	ug/L		10/23/19 15:07	10/28/19 23:42	1
Fluorene	ND		0.96	0.36	ug/L		10/23/19 15:07	10/28/19 23:42	1
Hexachlorobenzene	ND		0.48	0.13	ug/L		10/23/19 15:07	10/28/19 23:42	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		10/23/19 15:07	10/28/19 23:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-06C-101619

Lab Sample ID: 480-161258-4

Date Collected: 10/16/19 12:13

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		10/23/19 15:07	10/28/19 23:42	1
Hexachloroethane	ND		4.8	0.93	ug/L		10/23/19 15:07	10/28/19 23:42	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.081	ug/L		10/23/19 15:07	10/28/19 23:42	1
Isophorone	ND		1.9	0.28	ug/L		10/23/19 15:07	10/28/19 23:42	1
Nitrobenzene	ND		0.96	0.43	ug/L		10/23/19 15:07	10/28/19 23:42	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		10/23/19 15:07	10/28/19 23:42	1
N-Nitrosodiphenylamine	ND		1.9	0.33	ug/L		10/23/19 15:07	10/28/19 23:42	1
Phenol	ND		4.8	0.35	ug/L		10/23/19 15:07	10/28/19 23:42	1
Pyrene	ND *		0.96	0.46	ug/L		10/23/19 15:07	10/28/19 23:42	1
2,4-Dimethylphenol	ND		9.6	3.2	ug/L		10/23/19 15:07	10/28/19 23:42	1
Benzo[a]anthracene	ND		0.19	0.042	ug/L		10/23/19 15:07	10/28/19 23:42	1
Phenanthrene	ND		0.96	0.34	ug/L		10/23/19 15:07	10/28/19 23:42	1
3,3'-Dichlorobenzidine	ND		4.8	0.90	ug/L		10/23/19 15:07	10/28/19 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	145		40 - 145	10/23/19 15:07	10/28/19 23:42	1
2-Fluorobiphenyl	105		34 - 110	10/23/19 15:07	10/28/19 23:42	1
2-Fluorophenol (Surr)	41		27 - 110	10/23/19 15:07	10/28/19 23:42	1
Nitrobenzene-d5 (Surr)	86		36 - 120	10/23/19 15:07	10/28/19 23:42	1
Phenol-d5 (Surr)	30		20 - 100	10/23/19 15:07	10/28/19 23:42	1
Terphenyl-d14 (Surr)	105		40 - 145	10/23/19 15:07	10/28/19 23:42	1

Client Sample ID: SUPE-W-12A-101619

Lab Sample ID: 480-161258-5

Date Collected: 10/16/19 13:22

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 12:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 12:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 12:54	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 12:54	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 12:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 12:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 12:54	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 12:54	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 12:54	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 12:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 12:54	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 12:54	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 12:54	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 12:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		10/26/19 12:54	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/26/19 12:54	1
Dibromofluoromethane (Surr)	105		75 - 123		10/26/19 12:54	1
Toluene-d8 (Surr)	95		80 - 120		10/26/19 12:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-12A-101619

Lab Sample ID: 480-161258-5

Date Collected: 10/16/19 13:22

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	122		24 - 146				10/22/19 16:11	10/28/19 21:18	1
2-Fluorobiphenyl	101		37 - 120				10/22/19 16:11	10/28/19 21:18	1
2-Fluorophenol (Surr)	54		10 - 120				10/22/19 16:11	10/28/19 21:18	1
Nitrobenzene-d5 (Surr)	95		26 - 120				10/22/19 16:11	10/28/19 21:18	1
Phenol-d5 (Surr)	37		11 - 120				10/22/19 16:11	10/28/19 21:18	1
p-Terphenyl-d14	66		64 - 127				10/22/19 16:11	10/28/19 21:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		10/23/19 15:07	10/29/19 00:06	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		10/23/19 15:07	10/29/19 00:06	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		10/23/19 15:07	10/29/19 00:06	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		10/23/19 15:07	10/29/19 00:06	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		10/23/19 15:07	10/29/19 00:06	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.4	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,4,5-Trichlorophenol	ND		9.6	2.2	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,4,6-Trichlorophenol	ND		4.8	1.1	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,4-Dichlorophenol	ND		9.6	2.2	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,4-Dinitrotoluene	ND		0.96	0.29	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,6-Dinitrotoluene	ND		0.96	0.11	ug/L		10/23/19 15:07	10/29/19 00:06	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		10/23/19 15:07	10/29/19 00:06	1
2-Chloronaphthalene	ND		1.9	0.33	ug/L		10/23/19 15:07	10/29/19 00:06	1
2-Chlorophenol	ND		4.8	0.77	ug/L		10/23/19 15:07	10/29/19 00:06	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		10/23/19 15:07	10/29/19 00:06	1
2-Methylphenol	ND		1.9	0.30	ug/L		10/23/19 15:07	10/29/19 00:06	1
2-Nitroaniline	ND		4.8	1.0	ug/L		10/23/19 15:07	10/29/19 00:06	1
2-Nitrophenol	ND		9.6	2.0	ug/L		10/23/19 15:07	10/29/19 00:06	1
3-Nitroaniline	ND		9.6	2.2	ug/L		10/23/19 15:07	10/29/19 00:06	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		10/23/19 15:07	10/29/19 00:06	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		10/23/19 15:07	10/29/19 00:06	1
4-Chloro-3-methylphenol	ND		9.6	2.1	ug/L		10/23/19 15:07	10/29/19 00:06	1
4-Chloroaniline	ND		9.6	2.0	ug/L		10/23/19 15:07	10/29/19 00:06	1
4-Chlorophenyl phenyl ether	ND		4.8	0.78	ug/L		10/23/19 15:07	10/29/19 00:06	1
4-Nitroaniline	ND		9.6	3.8	ug/L		10/23/19 15:07	10/29/19 00:06	1
4-Nitrophenol	ND		19	2.2	ug/L		10/23/19 15:07	10/29/19 00:06	1
Acenaphthene	ND		0.96	0.34	ug/L		10/23/19 15:07	10/29/19 00:06	1
Acenaphthylene	ND		0.96	0.31	ug/L		10/23/19 15:07	10/29/19 00:06	1
Anthracene	ND		0.96	0.31	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzo[a]pyrene	ND		0.19	0.054	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzo[b]fluoranthene	ND		0.19	0.056	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzo[g,h,i]perylene	ND		0.96	0.40	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzo[k]fluoranthene	ND		0.19	0.071	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzoic acid	12	J	19	4.4	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzyl alcohol	ND		19	2.9	ug/L		10/23/19 15:07	10/29/19 00:06	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		10/23/19 15:07	10/29/19 00:06	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-12A-101619

Lab Sample ID: 480-161258-5

Date Collected: 10/16/19 13:22

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		1.9	0.34	ug/L		10/23/19 15:07	10/29/19 00:06	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.3	ug/L		10/23/19 15:07	10/29/19 00:06	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		10/23/19 15:07	10/29/19 00:06	1
Chrysene	ND		0.48	0.13	ug/L		10/23/19 15:07	10/29/19 00:06	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		10/23/19 15:07	10/29/19 00:06	1
Dibenzofuran	ND		1.9	0.34	ug/L		10/23/19 15:07	10/29/19 00:06	1
Diethyl phthalate	ND		1.9	0.42	ug/L		10/23/19 15:07	10/29/19 00:06	1
Dimethyl phthalate	ND		1.9	0.36	ug/L		10/23/19 15:07	10/29/19 00:06	1
Di-n-butyl phthalate	ND		4.8	0.77	ug/L		10/23/19 15:07	10/29/19 00:06	1
Di-n-octyl phthalate	ND		9.6	2.4	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		10/23/19 15:07	10/29/19 00:06	1
Fluoranthene	ND		0.96	0.31	ug/L		10/23/19 15:07	10/29/19 00:06	1
Fluorene	ND		0.96	0.36	ug/L		10/23/19 15:07	10/29/19 00:06	1
Hexachlorobenzene	ND		0.48	0.13	ug/L		10/23/19 15:07	10/29/19 00:06	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		10/23/19 15:07	10/29/19 00:06	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		10/23/19 15:07	10/29/19 00:06	1
Hexachloroethane	ND		4.8	0.93	ug/L		10/23/19 15:07	10/29/19 00:06	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		10/23/19 15:07	10/29/19 00:06	1
Isophorone	ND		1.9	0.28	ug/L		10/23/19 15:07	10/29/19 00:06	1
Nitrobenzene	ND		0.96	0.43	ug/L		10/23/19 15:07	10/29/19 00:06	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		10/23/19 15:07	10/29/19 00:06	1
N-Nitrosodiphenylamine	ND		1.9	0.33	ug/L		10/23/19 15:07	10/29/19 00:06	1
Phenol	ND		4.8	0.34	ug/L		10/23/19 15:07	10/29/19 00:06	1
Pyrene	ND *		0.96	0.46	ug/L		10/23/19 15:07	10/29/19 00:06	1
2,4-Dimethylphenol	ND		9.6	3.2	ug/L		10/23/19 15:07	10/29/19 00:06	1
Benzo[a]anthracene	ND		0.19	0.042	ug/L		10/23/19 15:07	10/29/19 00:06	1
Phenanthrene	ND		0.96	0.34	ug/L		10/23/19 15:07	10/29/19 00:06	1
3,3'-Dichlorobenzidine	ND		4.8	0.90	ug/L		10/23/19 15:07	10/29/19 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	134		40 - 145	10/23/19 15:07	10/29/19 00:06	1
2-Fluorobiphenyl	95		34 - 110	10/23/19 15:07	10/29/19 00:06	1
2-Fluorophenol (Surr)	37		27 - 110	10/23/19 15:07	10/29/19 00:06	1
Nitrobenzene-d5 (Surr)	78		36 - 120	10/23/19 15:07	10/29/19 00:06	1
Phenol-d5 (Surr)	30		20 - 100	10/23/19 15:07	10/29/19 00:06	1
Terphenyl-d14 (Surr)	78		40 - 145	10/23/19 15:07	10/29/19 00:06	1

Client Sample ID: SUPE-EB-02-101619

Lab Sample ID: 480-161258-6

Date Collected: 10/16/19 14:00

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 13:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 13:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 13:18	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 13:18	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 13:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 13:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 13:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-EB-02-101619

Lab Sample ID: 480-161258-6

Date Collected: 10/16/19 14:00

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 13:18	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 13:18	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 13:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 13:18	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 13:18	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 13:18	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 13:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		10/26/19 13:18	1
4-Bromofluorobenzene (Surr)	103		73 - 120		10/26/19 13:18	1
Dibromofluoromethane (Surr)	108		75 - 123		10/26/19 13:18	1
Toluene-d8 (Surr)	100		80 - 120		10/26/19 13:18	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		24 - 146	10/22/19 16:11	10/28/19 21:47	1
2-Fluorobiphenyl	107		37 - 120	10/22/19 16:11	10/28/19 21:47	1
2-Fluorophenol (Surr)	57		10 - 120	10/22/19 16:11	10/28/19 21:47	1
Nitrobenzene-d5 (Surr)	100		26 - 120	10/22/19 16:11	10/28/19 21:47	1
Phenol-d5 (Surr)	39		11 - 120	10/22/19 16:11	10/28/19 21:47	1
p-Terphenyl-d14	120		64 - 127	10/22/19 16:11	10/28/19 21:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:31	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 00:31	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/29/19 00:31	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 00:31	1
1-Methylnaphthalene	ND		2.0	0.51	ug/L		10/23/19 15:07	10/29/19 00:31	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,3,4,6-Tetrachlorophenol	ND		5.1	1.5	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,4,6-Trichlorophenol	ND		5.1	1.1	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,4-Dinitrophenol	ND		20	7.5	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/23/19 15:07	10/29/19 00:31	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/23/19 15:07	10/29/19 00:31	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 00:31	1
2-Chlorophenol	ND		5.1	0.81	ug/L		10/23/19 15:07	10/29/19 00:31	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/29/19 00:31	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/23/19 15:07	10/29/19 00:31	1
2-Nitroaniline	ND		5.1	1.1	ug/L		10/23/19 15:07	10/29/19 00:31	1
2-Nitrophenol	ND		10	2.2	ug/L		10/23/19 15:07	10/29/19 00:31	1
3-Nitroaniline	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 00:31	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-EB-02-101619

Lab Sample ID: 480-161258-6

Date Collected: 10/16/19 14:00

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		20	5.0	ug/L		10/23/19 15:07	10/29/19 00:31	1
4-Bromophenyl phenyl ether	ND		5.1	0.92	ug/L		10/23/19 15:07	10/29/19 00:31	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/23/19 15:07	10/29/19 00:31	1
4-Chloroaniline	ND		10	2.1	ug/L		10/23/19 15:07	10/29/19 00:31	1
4-Chlorophenyl phenyl ether	ND		5.1	0.82	ug/L		10/23/19 15:07	10/29/19 00:31	1
4-Nitroaniline	ND		10	4.0	ug/L		10/23/19 15:07	10/29/19 00:31	1
4-Nitrophenol	ND		20	2.4	ug/L		10/23/19 15:07	10/29/19 00:31	1
Acenaphthene	ND		1.0	0.36	ug/L		10/23/19 15:07	10/29/19 00:31	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 00:31	1
Anthracene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzo[a]pyrene	ND		0.20	0.057	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzo[b]fluoranthene	ND		0.20	0.059	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzo[k]fluoranthene	ND		0.20	0.075	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzoic acid	12	J	20	4.6	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzyl alcohol	ND		20	3.1	ug/L		10/23/19 15:07	10/29/19 00:31	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:31	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/23/19 15:07	10/29/19 00:31	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/29/19 00:31	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 00:31	1
Chrysene	ND		0.51	0.14	ug/L		10/23/19 15:07	10/29/19 00:31	1
Dibenz(a,h)anthracene	ND		0.30	0.065	ug/L		10/23/19 15:07	10/29/19 00:31	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/23/19 15:07	10/29/19 00:31	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/23/19 15:07	10/29/19 00:31	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/23/19 15:07	10/29/19 00:31	1
Di-n-butyl phthalate	ND		5.1	0.81	ug/L		10/23/19 15:07	10/29/19 00:31	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,3,5,6-Tetrachlorophenol	ND		5.1	2.5	ug/L		10/23/19 15:07	10/29/19 00:31	1
Fluoranthene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 00:31	1
Fluorene	ND		1.0	0.38	ug/L		10/23/19 15:07	10/29/19 00:31	1
Hexachlorobenzene	ND		0.51	0.14	ug/L		10/23/19 15:07	10/29/19 00:31	1
Hexachlorobutadiene	ND		5.1	1.1	ug/L		10/23/19 15:07	10/29/19 00:31	1
Hexachlorocyclopentadiene	ND		20	3.5	ug/L		10/23/19 15:07	10/29/19 00:31	1
Hexachloroethane	ND		5.1	0.98	ug/L		10/23/19 15:07	10/29/19 00:31	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.085	ug/L		10/23/19 15:07	10/29/19 00:31	1
Isophorone	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 00:31	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/23/19 15:07	10/29/19 00:31	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	ug/L		10/23/19 15:07	10/29/19 00:31	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 00:31	1
Phenol	ND		5.1	0.36	ug/L		10/23/19 15:07	10/29/19 00:31	1
Pyrene	ND	*	1.0	0.49	ug/L		10/23/19 15:07	10/29/19 00:31	1
2,4-Dimethylphenol	ND		10	3.4	ug/L		10/23/19 15:07	10/29/19 00:31	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/23/19 15:07	10/29/19 00:31	1
Phenanthrene	ND		1.0	0.35	ug/L		10/23/19 15:07	10/29/19 00:31	1
3,3'-Dichlorobenzidine	ND		5.1	0.95	ug/L		10/23/19 15:07	10/29/19 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	122		40 - 145	10/23/19 15:07	10/29/19 00:31	1
2-Fluorobiphenyl	94		34 - 110	10/23/19 15:07	10/29/19 00:31	1
2-Fluorophenol (Surr)	41		27 - 110	10/23/19 15:07	10/29/19 00:31	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-EB-02-101619

Lab Sample ID: 480-161258-6

Date Collected: 10/16/19 14:00

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		36 - 120	10/23/19 15:07	10/29/19 00:31	1
Phenol-d5 (Surr)	28		20 - 100	10/23/19 15:07	10/29/19 00:31	1
Terphenyl-d14 (Surr)	101		40 - 145	10/23/19 15:07	10/29/19 00:31	1

Client Sample ID: SUPE-W-12CR-101619

Lab Sample ID: 480-161258-7

Date Collected: 10/16/19 14:45

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 13:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 13:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 13:42	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 13:42	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 13:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 13:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 13:42	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 13:42	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 13:42	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 13:42	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 13:42	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 13:42	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 13:42	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 13:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/26/19 13:42	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/26/19 13:42	1
Dibromofluoromethane (Surr)	100		75 - 123		10/26/19 13:42	1
Toluene-d8 (Surr)	95		80 - 120		10/26/19 13:42	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	132		24 - 146	10/22/19 16:11	10/28/19 22:15	1
2-Fluorobiphenyl	112		37 - 120	10/22/19 16:11	10/28/19 22:15	1
2-Fluorophenol (Surr)	60		10 - 120	10/22/19 16:11	10/28/19 22:15	1
Nitrobenzene-d5 (Surr)	106		26 - 120	10/22/19 16:11	10/28/19 22:15	1
Phenol-d5 (Surr)	40		11 - 120	10/22/19 16:11	10/28/19 22:15	1
p-Terphenyl-d14	128	X	64 - 127	10/22/19 16:11	10/28/19 22:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:55	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 00:55	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/29/19 00:55	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 00:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-12CR-101619

Lab Sample ID: 480-161258-7

Date Collected: 10/16/19 14:45

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		2.0	0.50	ug/L		10/23/19 15:07	10/29/19 00:55	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,4,6-Trichlorophenol	3.4	J	5.0	1.1	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,4-Dinitrophenol	ND		20	7.5	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/23/19 15:07	10/29/19 00:55	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/23/19 15:07	10/29/19 00:55	1
2-Chloronaphthalene	9.9		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 00:55	1
2-Chlorophenol	ND		5.0	0.80	ug/L		10/23/19 15:07	10/29/19 00:55	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/29/19 00:55	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/23/19 15:07	10/29/19 00:55	1
2-Nitroaniline	ND		5.0	1.1	ug/L		10/23/19 15:07	10/29/19 00:55	1
2-Nitrophenol	ND		10	2.1	ug/L		10/23/19 15:07	10/29/19 00:55	1
3-Nitroaniline	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 00:55	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		10/23/19 15:07	10/29/19 00:55	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		10/23/19 15:07	10/29/19 00:55	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/23/19 15:07	10/29/19 00:55	1
4-Chloroaniline	ND		10	2.1	ug/L		10/23/19 15:07	10/29/19 00:55	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		10/23/19 15:07	10/29/19 00:55	1
4-Nitroaniline	ND		10	3.9	ug/L		10/23/19 15:07	10/29/19 00:55	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/29/19 00:55	1
Acenaphthene	ND		1.0	0.36	ug/L		10/23/19 15:07	10/29/19 00:55	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 00:55	1
Anthracene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzoic acid	12	J	20	4.6	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzyl alcohol	ND		20	3.1	ug/L		10/23/19 15:07	10/29/19 00:55	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 00:55	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/23/19 15:07	10/29/19 00:55	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/23/19 15:07	10/29/19 00:55	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 00:55	1
Chrysene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/29/19 00:55	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		10/23/19 15:07	10/29/19 00:55	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/23/19 15:07	10/29/19 00:55	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/23/19 15:07	10/29/19 00:55	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/23/19 15:07	10/29/19 00:55	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		10/23/19 15:07	10/29/19 00:55	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		10/23/19 15:07	10/29/19 00:55	1
Fluoranthene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 00:55	1
Fluorene	ND		1.0	0.38	ug/L		10/23/19 15:07	10/29/19 00:55	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/29/19 00:55	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		10/23/19 15:07	10/29/19 00:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-12CR-101619

Lab Sample ID: 480-161258-7

Date Collected: 10/16/19 14:45

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		20	3.5	ug/L		10/23/19 15:07	10/29/19 00:55	1
Hexachloroethane	ND		5.0	0.97	ug/L		10/23/19 15:07	10/29/19 00:55	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		10/23/19 15:07	10/29/19 00:55	1
Isophorone	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 00:55	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/23/19 15:07	10/29/19 00:55	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		10/23/19 15:07	10/29/19 00:55	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 00:55	1
Phenol	ND		5.0	0.36	ug/L		10/23/19 15:07	10/29/19 00:55	1
Pyrene	ND *		1.0	0.48	ug/L		10/23/19 15:07	10/29/19 00:55	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		10/23/19 15:07	10/29/19 00:55	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/23/19 15:07	10/29/19 00:55	1
Phenanthrene	ND		1.0	0.35	ug/L		10/23/19 15:07	10/29/19 00:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		10/23/19 15:07	10/29/19 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	147	X	40 - 145	10/23/19 15:07	10/29/19 00:55	1
2-Fluorobiphenyl	105		34 - 110	10/23/19 15:07	10/29/19 00:55	1
2-Fluorophenol (Surr)	48		27 - 110	10/23/19 15:07	10/29/19 00:55	1
Nitrobenzene-d5 (Surr)	90		36 - 120	10/23/19 15:07	10/29/19 00:55	1
Phenol-d5 (Surr)	37		20 - 100	10/23/19 15:07	10/29/19 00:55	1
Terphenyl-d14 (Surr)	107		40 - 145	10/23/19 15:07	10/29/19 00:55	1

Client Sample ID: SUPE-W-18D-101619

Lab Sample ID: 480-161258-8

Date Collected: 10/16/19 16:10

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	124		24 - 146	10/22/19 16:11	10/28/19 22:43	1
2-Fluorobiphenyl	105		37 - 120	10/22/19 16:11	10/28/19 22:43	1
2-Fluorophenol (Surr)	54		10 - 120	10/22/19 16:11	10/28/19 22:43	1
Nitrobenzene-d5 (Surr)	96		26 - 120	10/22/19 16:11	10/28/19 22:43	1
Phenol-d5 (Surr)	36		11 - 120	10/22/19 16:11	10/28/19 22:43	1
p-Terphenyl-d14	114		64 - 127	10/22/19 16:11	10/28/19 22:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 01:19	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 01:19	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/29/19 01:19	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 01:19	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		10/23/19 15:07	10/29/19 01:19	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		10/23/19 15:07	10/29/19 01:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-18D-101619

Lab Sample ID: 480-161258-8

Date Collected: 10/16/19 16:10

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/23/19 15:07	10/29/19 01:19	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/23/19 15:07	10/29/19 01:19	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 01:19	1
2-Chlorophenol	ND		5.0	0.80	ug/L		10/23/19 15:07	10/29/19 01:19	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/29/19 01:19	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/23/19 15:07	10/29/19 01:19	1
2-Nitroaniline	ND		5.0	1.1	ug/L		10/23/19 15:07	10/29/19 01:19	1
2-Nitrophenol	ND		10	2.1	ug/L		10/23/19 15:07	10/29/19 01:19	1
3-Nitroaniline	ND		10	2.3	ug/L		10/23/19 15:07	10/29/19 01:19	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		10/23/19 15:07	10/29/19 01:19	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		10/23/19 15:07	10/29/19 01:19	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/23/19 15:07	10/29/19 01:19	1
4-Chloroaniline	ND		10	2.1	ug/L		10/23/19 15:07	10/29/19 01:19	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		10/23/19 15:07	10/29/19 01:19	1
4-Nitroaniline	ND		10	3.9	ug/L		10/23/19 15:07	10/29/19 01:19	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/29/19 01:19	1
Acenaphthene	ND		1.0	0.36	ug/L		10/23/19 15:07	10/29/19 01:19	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 01:19	1
Anthracene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzoic acid	12 J		20	4.5	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzyl alcohol	ND		20	3.0	ug/L		10/23/19 15:07	10/29/19 01:19	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 01:19	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/23/19 15:07	10/29/19 01:19	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/23/19 15:07	10/29/19 01:19	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 01:19	1
Chrysene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/29/19 01:19	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		10/23/19 15:07	10/29/19 01:19	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/23/19 15:07	10/29/19 01:19	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/23/19 15:07	10/29/19 01:19	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/23/19 15:07	10/29/19 01:19	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		10/23/19 15:07	10/29/19 01:19	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		10/23/19 15:07	10/29/19 01:19	1
Fluoranthene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/29/19 01:19	1
Fluorene	ND		1.0	0.38	ug/L		10/23/19 15:07	10/29/19 01:19	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/29/19 01:19	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		10/23/19 15:07	10/29/19 01:19	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/23/19 15:07	10/29/19 01:19	1
Hexachloroethane	ND		5.0	0.97	ug/L		10/23/19 15:07	10/29/19 01:19	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		10/23/19 15:07	10/29/19 01:19	1
Isophorone	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 01:19	1
Naphthalene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/29/19 01:19	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/23/19 15:07	10/29/19 01:19	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		10/23/19 15:07	10/29/19 01:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-W-18D-101619

Lab Sample ID: 480-161258-8

Date Collected: 10/16/19 16:10

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 01:19	1
Pentachlorophenol	ND		20	5.6	ug/L		10/23/19 15:07	10/29/19 01:19	1
Phenol	ND		5.0	0.36	ug/L		10/23/19 15:07	10/29/19 01:19	1
Pyrene	ND	*	1.0	0.48	ug/L		10/23/19 15:07	10/29/19 01:19	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		10/23/19 15:07	10/29/19 01:19	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/23/19 15:07	10/29/19 01:19	1
Phenanthrene	ND		1.0	0.35	ug/L		10/23/19 15:07	10/29/19 01:19	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		10/23/19 15:07	10/29/19 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	141		40 - 145				10/23/19 15:07	10/29/19 01:19	1
2-Fluorobiphenyl	95		34 - 110				10/23/19 15:07	10/29/19 01:19	1
2-Fluorophenol (Surr)	43		27 - 110				10/23/19 15:07	10/29/19 01:19	1
Nitrobenzene-d5 (Surr)	81		36 - 120				10/23/19 15:07	10/29/19 01:19	1
Phenol-d5 (Surr)	34		20 - 100				10/23/19 15:07	10/29/19 01:19	1
Terphenyl-d14 (Surr)	94		40 - 145				10/23/19 15:07	10/29/19 01:19	1

Client Sample ID: SUPE-M-99A-101619

Lab Sample ID: 480-161258-9

Date Collected: 10/16/19 22:00

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 14:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 14:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 14:06	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 14:06	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 14:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 14:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 14:06	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 14:06	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 14:06	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 14:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 14:06	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 14:06	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 14:06	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 14:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					10/26/19 14:06	1
4-Bromofluorobenzene (Surr)	102		73 - 120					10/26/19 14:06	1
Dibromofluoromethane (Surr)	102		75 - 123					10/26/19 14:06	1
Toluene-d8 (Surr)	96		80 - 120					10/26/19 14:06	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		24 - 146				10/22/19 16:11	10/28/19 23:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-M-99A-101619

Lab Sample ID: 480-161258-9

Date Collected: 10/16/19 22:00

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	105		37 - 120	10/22/19 16:11	10/28/19 23:12	1
2-Fluorophenol (Surr)	58		10 - 120	10/22/19 16:11	10/28/19 23:12	1
Nitrobenzene-d5 (Surr)	99		26 - 120	10/22/19 16:11	10/28/19 23:12	1
Phenol-d5 (Surr)	38		11 - 120	10/22/19 16:11	10/28/19 23:12	1
p-Terphenyl-d14	114		64 - 127	10/22/19 16:11	10/28/19 23:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 01:44	1
1,2-Dichlorobenzene	ND		2.0	0.28	ug/L		10/23/19 15:07	10/29/19 01:44	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/29/19 01:44	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 01:44	1
1-Methylnaphthalene	ND		2.0	0.49	ug/L		10/23/19 15:07	10/29/19 01:44	1
bis(chloroisopropyl) ether	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,3,4,6-Tetrachlorophenol	ND		4.9	1.5	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,4,5-Trichlorophenol	ND		9.8	2.2	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,4,6-Trichlorophenol	ND		4.9	1.1	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,4-Dichlorophenol	ND		9.8	2.2	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,4-Dinitrophenol	ND		20	7.3	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,4-Dinitrotoluene	ND		0.98	0.29	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,6-Dinitrotoluene	ND		0.98	0.12	ug/L		10/23/19 15:07	10/29/19 01:44	1
3 & 4 Methylphenol	ND		2.0	0.43	ug/L		10/23/19 15:07	10/29/19 01:44	1
2-Chloronaphthalene	ND		2.0	0.33	ug/L		10/23/19 15:07	10/29/19 01:44	1
2-Chlorophenol	ND		4.9	0.79	ug/L		10/23/19 15:07	10/29/19 01:44	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/29/19 01:44	1
2-Methylphenol	ND		2.0	0.30	ug/L		10/23/19 15:07	10/29/19 01:44	1
2-Nitroaniline	ND		4.9	1.1	ug/L		10/23/19 15:07	10/29/19 01:44	1
2-Nitrophenol	ND		9.8	2.1	ug/L		10/23/19 15:07	10/29/19 01:44	1
3-Nitroaniline	ND		9.8	2.2	ug/L		10/23/19 15:07	10/29/19 01:44	1
4,6-Dinitro-2-methylphenol	ND		20	4.8	ug/L		10/23/19 15:07	10/29/19 01:44	1
4-Bromophenyl phenyl ether	ND		4.9	0.89	ug/L		10/23/19 15:07	10/29/19 01:44	1
4-Chloro-3-methylphenol	ND		9.8	2.2	ug/L		10/23/19 15:07	10/29/19 01:44	1
4-Chloroaniline	ND		9.8	2.1	ug/L		10/23/19 15:07	10/29/19 01:44	1
4-Chlorophenyl phenyl ether	ND		4.9	0.80	ug/L		10/23/19 15:07	10/29/19 01:44	1
4-Nitroaniline	ND		9.8	3.9	ug/L		10/23/19 15:07	10/29/19 01:44	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/29/19 01:44	1
Acenaphthene	ND		0.98	0.35	ug/L		10/23/19 15:07	10/29/19 01:44	1
Acenaphthylene	ND		0.98	0.31	ug/L		10/23/19 15:07	10/29/19 01:44	1
Anthracene	ND		0.98	0.31	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzo[b]fluoranthene	ND		0.20	0.057	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzo[g,h,i]perylene	ND		0.98	0.41	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzo[k]fluoranthene	ND		0.20	0.073	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzoic acid	12 J		20	4.5	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzyl alcohol	ND		20	3.0	ug/L		10/23/19 15:07	10/29/19 01:44	1
Bis(2-chloroethoxy)methane	ND		2.0	0.29	ug/L		10/23/19 15:07	10/29/19 01:44	1
Bis(2-chloroethyl)ether	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 01:44	1
Bis(2-ethylhexyl) phthalate	ND		9.8	2.4	ug/L		10/23/19 15:07	10/29/19 01:44	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/29/19 01:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-M-99A-101619

Lab Sample ID: 480-161258-9

Date Collected: 10/16/19 22:00

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.49	0.14	ug/L		10/23/19 15:07	10/29/19 01:44	1
Dibenz(a,h)anthracene	ND		0.29	0.063	ug/L		10/23/19 15:07	10/29/19 01:44	1
Dibenzofuran	ND		2.0	0.34	ug/L		10/23/19 15:07	10/29/19 01:44	1
Diethyl phthalate	ND		2.0	0.43	ug/L		10/23/19 15:07	10/29/19 01:44	1
Dimethyl phthalate	ND		2.0	0.37	ug/L		10/23/19 15:07	10/29/19 01:44	1
Di-n-butyl phthalate	ND		4.9	0.79	ug/L		10/23/19 15:07	10/29/19 01:44	1
Di-n-octyl phthalate	ND		9.8	2.4	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.5	ug/L		10/23/19 15:07	10/29/19 01:44	1
Fluoranthene	ND		0.98	0.31	ug/L		10/23/19 15:07	10/29/19 01:44	1
Fluorene	ND		0.98	0.37	ug/L		10/23/19 15:07	10/29/19 01:44	1
Hexachlorobenzene	ND		0.49	0.14	ug/L		10/23/19 15:07	10/29/19 01:44	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		10/23/19 15:07	10/29/19 01:44	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/23/19 15:07	10/29/19 01:44	1
Hexachloroethane	ND		4.9	0.95	ug/L		10/23/19 15:07	10/29/19 01:44	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.083	ug/L		10/23/19 15:07	10/29/19 01:44	1
Isophorone	ND		2.0	0.28	ug/L		10/23/19 15:07	10/29/19 01:44	1
Nitrobenzene	ND		0.98	0.44	ug/L		10/23/19 15:07	10/29/19 01:44	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		10/23/19 15:07	10/29/19 01:44	1
N-Nitrosodiphenylamine	ND		2.0	0.33	ug/L		10/23/19 15:07	10/29/19 01:44	1
Phenol	ND		4.9	0.35	ug/L		10/23/19 15:07	10/29/19 01:44	1
Pyrene	ND *		0.98	0.47	ug/L		10/23/19 15:07	10/29/19 01:44	1
2,4-Dimethylphenol	ND		9.8	3.3	ug/L		10/23/19 15:07	10/29/19 01:44	1
Benzo[a]anthracene	ND		0.20	0.043	ug/L		10/23/19 15:07	10/29/19 01:44	1
Phenanthrene	ND		0.98	0.34	ug/L		10/23/19 15:07	10/29/19 01:44	1
3,3'-Dichlorobenzidine	ND		4.9	0.92	ug/L		10/23/19 15:07	10/29/19 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	137		40 - 145	10/23/19 15:07	10/29/19 01:44	1
2-Fluorobiphenyl	96		34 - 110	10/23/19 15:07	10/29/19 01:44	1
2-Fluorophenol (Surr)	44		27 - 110	10/23/19 15:07	10/29/19 01:44	1
Nitrobenzene-d5 (Surr)	81		36 - 120	10/23/19 15:07	10/29/19 01:44	1
Phenol-d5 (Surr)	31		20 - 100	10/23/19 15:07	10/29/19 01:44	1
Terphenyl-d14 (Surr)	101		40 - 145	10/23/19 15:07	10/29/19 01:44	1

Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-161258-1	SUPE-TB -02-101619	94	96	97	93
480-161258-2	SUPE-W-30C-101619	101	96	99	92
480-161258-3	SUPE-W-06A-101619	102	99	102	93
480-161258-4	SUPE-W-06C-101619	107	107	106	102
480-161258-5	SUPE-W-12A-101619	105	99	105	95
480-161258-6	SUPE-EB-02-101619	108	103	108	100
480-161258-7	SUPE-W-12CR-101619	99	101	100	95
480-161258-9	SUPE-M-99A-101619	102	102	102	96
LCS 480-500393/5	Lab Control Sample	97	102	100	98
LCS 480-500533/6	Lab Control Sample	105	106	107	101
MB 480-500393/7	Method Blank	95	98	98	94
MB 480-500533/8	Method Blank	103	101	100	97

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)
480-161258-2	SUPE-W-30C-101619	142	101	39	86	31	106
480-161258-3	SUPE-W-06A-101619	140	98	37	81	30	89
480-161258-4	SUPE-W-06C-101619	145	105	41	86	30	105
480-161258-5	SUPE-W-12A-101619	134	95	37	78	30	78
480-161258-6	SUPE-EB-02-101619	122	94	41	79	28	101
480-161258-7	SUPE-W-12CR-101619	147 X	105	48	90	37	107
480-161258-8	SUPE-W-18D-101619	141	95	43	81	34	94
480-161258-9	SUPE-M-99A-101619	137	96	44	81	31	101
LCS 500-511565/2-A	Lab Control Sample	113	98	62	94	43	117
MB 500-511565/1-A	Method Blank	50	86	32	87	31	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-161258-2	SUPE-W-30C-101619	104	99	55	95	37	107

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-161258-3	SUPE-W-06A-101619	115	97	52	91	36	64
480-161258-4	SUPE-W-06C-101619	104	103	55	97	36	103
480-161258-5	SUPE-W-12A-101619	122	101	54	95	37	66
480-161258-6	SUPE-EB-02-101619	83	107	57	100	39	120
480-161258-7	SUPE-W-12CR-101619	132	112	60	106	40	128 X
480-161258-8	SUPE-W-18D-101619	124	105	54	96	36	114
480-161258-9	SUPE-M-99A-101619	113	105	58	99	38	114
LCS 480-499539/2-A	Lab Control Sample	116	101	56	102	40	117
MB 480-499539/1-A	Method Blank	56	87	47	80	34	100

Surrogate Legend

- TBP = 2,4,6-Tribromophenol (Surr)
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol (Surr)
- NBZ = Nitrobenzene-d5 (Surr)
- PHL = Phenol-d5 (Surr)
- TPHd14 = p-Terphenyl-d14



QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

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

Lab Sample ID: MB 480-500393/7
Matrix: Water
Analysis Batch: 500393

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/19 10:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/26/19 10:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/26/19 10:45	1
Benzene	ND		1.0	0.41	ug/L			10/26/19 10:45	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/19 10:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/19 10:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/19 10:45	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/26/19 10:45	1
Naphthalene	ND		1.0	0.43	ug/L			10/26/19 10:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/26/19 10:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/26/19 10:45	1
o-Xylene	ND		1.0	0.76	ug/L			10/26/19 10:45	1
Styrene	ND		1.0	0.73	ug/L			10/26/19 10:45	1
Toluene	ND		1.0	0.51	ug/L			10/26/19 10:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/19 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		10/26/19 10:45	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/26/19 10:45	1
Dibromofluoromethane (Surr)	98		75 - 123		10/26/19 10:45	1
Toluene-d8 (Surr)	94		80 - 120		10/26/19 10:45	1

Lab Sample ID: LCS 480-500393/5
Matrix: Water
Analysis Batch: 500393

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	73 - 126
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	76 - 121
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	77 - 121
Benzene	25.0	24.0		ug/L		96	71 - 124
Chloromethane	25.0	18.2		ug/L		73	68 - 124
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	76 - 122
Naphthalene	25.0	23.3		ug/L		93	66 - 125
n-Butylbenzene	25.0	24.8		ug/L		99	71 - 128
N-Propylbenzene	25.0	24.6		ug/L		99	75 - 127
o-Xylene	25.0	24.3		ug/L		97	76 - 122
Styrene	25.0	25.1		ug/L		100	80 - 120
Toluene	25.0	23.2		ug/L		93	80 - 122
Xylenes, Total	50.0	48.8		ug/L		98	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	98		80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

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

Lab Sample ID: MB 480-500533/8
Matrix: Water
Analysis Batch: 500533

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/27/19 13:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/27/19 13:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/27/19 13:15	1
Benzene	ND		1.0	0.41	ug/L			10/27/19 13:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/27/19 13:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/27/19 13:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/27/19 13:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/27/19 13:15	1
Naphthalene	ND		1.0	0.43	ug/L			10/27/19 13:15	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/27/19 13:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/27/19 13:15	1
o-Xylene	ND		1.0	0.76	ug/L			10/27/19 13:15	1
Styrene	ND		1.0	0.73	ug/L			10/27/19 13:15	1
Toluene	ND		1.0	0.51	ug/L			10/27/19 13:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/27/19 13:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/27/19 13:15	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/27/19 13:15	1
Dibromofluoromethane (Surr)	100		75 - 123		10/27/19 13:15	1
Toluene-d8 (Surr)	97		80 - 120		10/27/19 13:15	1

Lab Sample ID: LCS 480-500533/6
Matrix: Water
Analysis Batch: 500533

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		99	76 - 121
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		98	77 - 121
Benzene	25.0	24.5		ug/L		98	71 - 124
Chloromethane	25.0	22.1		ug/L		88	68 - 124
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	76 - 122
Naphthalene	25.0	23.0		ug/L		92	66 - 125
n-Butylbenzene	25.0	24.8		ug/L		99	71 - 128
N-Propylbenzene	25.0	24.7		ug/L		99	75 - 127
o-Xylene	25.0	24.5		ug/L		98	76 - 122
Styrene	25.0	25.1		ug/L		100	80 - 120
Toluene	25.0	23.6		ug/L		95	80 - 122
Xylenes, Total	50.0	49.0		ug/L		98	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-511565/1-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511565

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/24/19 12:07	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/24/19 12:07	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/24/19 12:07	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		10/23/19 15:07	10/24/19 12:07	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/23/19 15:07	10/24/19 12:07	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Chlorophenol	ND		5.0	0.80	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Nitroaniline	ND		5.0	1.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Nitrophenol	ND		10	2.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
3-Nitroaniline	ND		10	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Chloroaniline	ND		10	2.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Nitroaniline	ND		10	3.9	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
Acenaphthene	ND		1.0	0.36	ug/L		10/23/19 15:07	10/24/19 12:07	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/24/19 12:07	1
Anthracene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzoic acid	ND		20	4.6	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzyl alcohol	ND		20	3.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/23/19 15:07	10/24/19 12:07	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/23/19 15:07	10/24/19 12:07	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/24/19 12:07	1
Chrysene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/24/19 12:07	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		10/23/19 15:07	10/24/19 12:07	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/23/19 15:07	10/24/19 12:07	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/23/19 15:07	10/24/19 12:07	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/23/19 15:07	10/24/19 12:07	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		10/23/19 15:07	10/24/19 12:07	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/24/19 12:07	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-511565/1-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		10/23/19 15:07	10/24/19 12:07	1
Fluoranthene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/24/19 12:07	1
Fluorene	ND		1.0	0.38	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachloroethane	ND		5.0	0.97	ug/L		10/23/19 15:07	10/24/19 12:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		10/23/19 15:07	10/24/19 12:07	1
Isophorone	ND		2.0	0.29	ug/L		10/23/19 15:07	10/24/19 12:07	1
Naphthalene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/23/19 15:07	10/24/19 12:07	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		10/23/19 15:07	10/24/19 12:07	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/23/19 15:07	10/24/19 12:07	1
Pentachlorophenol	ND		20	5.6	ug/L		10/23/19 15:07	10/24/19 12:07	1
Phenol	ND		5.0	0.36	ug/L		10/23/19 15:07	10/24/19 12:07	1
Pyrene	ND		1.0	0.48	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/23/19 15:07	10/24/19 12:07	1
Phenanthrene	ND		1.0	0.35	ug/L		10/23/19 15:07	10/24/19 12:07	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		10/23/19 15:07	10/24/19 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		40 - 145	10/23/19 15:07	10/24/19 12:07	1
2-Fluorobiphenyl	86		34 - 110	10/23/19 15:07	10/24/19 12:07	1
2-Fluorophenol (Surr)	32		27 - 110	10/23/19 15:07	10/24/19 12:07	1
Nitrobenzene-d5 (Surr)	87		36 - 120	10/23/19 15:07	10/24/19 12:07	1
Phenol-d5 (Surr)	31		20 - 100	10/23/19 15:07	10/24/19 12:07	1
Terphenyl-d14 (Surr)	104		40 - 145	10/23/19 15:07	10/24/19 12:07	1

Lab Sample ID: LCS 500-511565/2-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	40.0	26.9		ug/L		67	26 - 110
1,2-Dichlorobenzene	40.0	26.3		ug/L		66	26 - 110
1,3-Dichlorobenzene	40.0	25.6		ug/L		64	22 - 110
1,4-Dichlorobenzene	40.0	25.7		ug/L		64	23 - 110
1-Methylnaphthalene	40.0	29.9		ug/L		75	38 - 110
bis(chloroisopropyl) ether	40.0	40.4		ug/L		101	38 - 110
2,3,4,6-Tetrachlorophenol	40.0	36.7		ug/L		92	44 - 118
2,4,5-Trichlorophenol	40.0	43.5		ug/L		109	63 - 120
2,4,6-Trichlorophenol	40.0	43.1		ug/L		108	62 - 110
2,4-Dichlorophenol	40.0	40.9		ug/L		102	62 - 110
2,4-Dinitrophenol	80.0	93.6		ug/L		117	37 - 130
2,4-Dinitrotoluene	40.0	46.0		ug/L		115	63 - 122
2,6-Dinitrotoluene	40.0	45.5		ug/L		114	63 - 119
3 & 4 Methylphenol	40.0	31.6		ug/L		79	53 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-511565/2-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	40.0	33.1		ug/L		83	39 - 110
2-Chlorophenol	40.0	37.7		ug/L		94	59 - 110
2-Methylnaphthalene	40.0	29.5		ug/L		74	34 - 110
2-Methylphenol	40.0	35.9		ug/L		90	53 - 110
2-Nitroaniline	40.0	45.4		ug/L		113	59 - 122
2-Nitrophenol	40.0	37.8		ug/L		95	58 - 110
3-Nitroaniline	40.0	37.9		ug/L		95	47 - 123
4,6-Dinitro-2-methylphenol	80.0	87.9		ug/L		110	50 - 117
4-Bromophenyl phenyl ether	40.0	41.5		ug/L		104	58 - 120
4-Chloro-3-methylphenol	40.0	41.9		ug/L		105	64 - 120
4-Chloroaniline	40.0	42.4		ug/L		106	35 - 128
4-Chlorophenyl phenyl ether	40.0	38.2		ug/L		96	47 - 112
4-Nitroaniline	40.0	30.4		ug/L		76	52 - 147
4-Nitrophenol	80.0	25.7		ug/L		32	20 - 110
Acenaphthene	40.0	36.8		ug/L		92	46 - 110
Acenaphthylene	40.0	37.7		ug/L		94	47 - 110
Anthracene	40.0	42.3		ug/L		106	67 - 110
Benzo[a]pyrene	40.0	44.6		ug/L		112	70 - 120
Benzo[b]fluoranthene	40.0	44.0		ug/L		110	69 - 123
Benzo[g,h,i]perylene	40.0	45.4		ug/L		114	70 - 120
Benzo[k]fluoranthene	40.0	44.8		ug/L		112	70 - 120
Benzoic acid	80.0	27.0		ug/L		34	10 - 100
Benzyl alcohol	40.0	37.2		ug/L		93	33 - 127
Bis(2-chloroethoxy)methane	40.0	38.6		ug/L		96	60 - 110
Bis(2-chloroethyl)ether	40.0	36.8		ug/L		92	49 - 110
Bis(2-ethylhexyl) phthalate	40.0	45.5		ug/L		114	69 - 120
Butyl benzyl phthalate	40.0	45.6		ug/L		114	68 - 120
Chrysene	40.0	46.3		ug/L		116	68 - 120
Dibenz(a,h)anthracene	40.0	46.4		ug/L		116	70 - 127
Dibenzofuran	40.0	38.8		ug/L		97	51 - 110
Diethyl phthalate	40.0	44.0		ug/L		110	62 - 120
Dimethyl phthalate	40.0	44.5		ug/L		111	63 - 120
Di-n-butyl phthalate	40.0	43.6		ug/L		109	70 - 120
Di-n-octyl phthalate	40.0	45.6		ug/L		114	70 - 122
Fluoranthene	40.0	45.1		ug/L		113	68 - 120
Fluorene	40.0	39.7		ug/L		99	53 - 120
Hexachlorobenzene	40.0	42.3		ug/L		106	61 - 120
Hexachlorobutadiene	40.0	24.2		ug/L		61	20 - 100
Hexachlorocyclopentadiene	40.0	15.2	J	ug/L		38	10 - 100
Hexachloroethane	40.0	23.5		ug/L		59	20 - 100
Indeno[1,2,3-cd]pyrene	40.0	46.0		ug/L		115	65 - 133
Isophorone	40.0	39.6		ug/L		99	57 - 110
Naphthalene	40.0	29.3		ug/L		73	36 - 110
Nitrobenzene	40.0	36.3		ug/L		91	53 - 110
N-Nitrosodi-n-propylamine	40.0	36.6		ug/L		91	58 - 110
N-Nitrosodiphenylamine	40.0	42.0		ug/L		105	66 - 110
Pentachlorophenol	80.0	59.0		ug/L		74	23 - 129
Phenol	40.0	17.5		ug/L		44	33 - 100
Pyrene	40.0	46.0	*	ug/L		115	70 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-511565/2-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dimethylphenol	40.0	39.7		ug/L		99	51 - 110
Benzo[a]anthracene	40.0	44.8		ug/L		112	70 - 120
Phenanthrene	40.0	42.4		ug/L		106	65 - 120
3,3'-Dichlorobenzidine	40.0	45.0		ug/L		113	60 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	113		40 - 145
2-Fluorobiphenyl	98		34 - 110
2-Fluorophenol (Surr)	62		27 - 110
Nitrobenzene-d5 (Surr)	94		36 - 120
Phenol-d5 (Surr)	43		20 - 100
Terphenyl-d14 (Surr)	117		40 - 145

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-499539/1-A
Matrix: Water
Analysis Batch: 500726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 17:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		24 - 146	10/22/19 16:11	10/28/19 17:30	1
2-Fluorobiphenyl	87		37 - 120	10/22/19 16:11	10/28/19 17:30	1
2-Fluorophenol (Surr)	47		10 - 120	10/22/19 16:11	10/28/19 17:30	1
Nitrobenzene-d5 (Surr)	80		26 - 120	10/22/19 16:11	10/28/19 17:30	1
Phenol-d5 (Surr)	34		11 - 120	10/22/19 16:11	10/28/19 17:30	1
p-Terphenyl-d14	100		64 - 127	10/22/19 16:11	10/28/19 17:30	1

Lab Sample ID: LCS 480-499539/2-A
Matrix: Water
Analysis Batch: 500726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	16.0	13.8		ug/L		86	10 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	116		24 - 146
2-Fluorobiphenyl	101		37 - 120
2-Fluorophenol (Surr)	56		10 - 120
Nitrobenzene-d5 (Surr)	102		26 - 120
Phenol-d5 (Surr)	40		11 - 120
p-Terphenyl-d14	117		64 - 127

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

GC/MS VOA

Analysis Batch: 500393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-1	SUPE-TB -02-101619	Total/NA	Water	8260C	
480-161258-4	SUPE-W-06C-101619	Total/NA	Water	8260C	
480-161258-5	SUPE-W-12A-101619	Total/NA	Water	8260C	
480-161258-6	SUPE-EB-02-101619	Total/NA	Water	8260C	
480-161258-7	SUPE-W-12CR-101619	Total/NA	Water	8260C	
480-161258-9	SUPE-M-99A-101619	Total/NA	Water	8260C	
MB 480-500393/7	Method Blank	Total/NA	Water	8260C	
LCS 480-500393/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 500533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-2	SUPE-W-30C-101619	Total/NA	Water	8260C	
480-161258-3	SUPE-W-06A-101619	Total/NA	Water	8260C	
MB 480-500533/8	Method Blank	Total/NA	Water	8260C	
LCS 480-500533/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 499539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-2	SUPE-W-30C-101619	Total/NA	Water	3510C	
480-161258-3	SUPE-W-06A-101619	Total/NA	Water	3510C	
480-161258-4	SUPE-W-06C-101619	Total/NA	Water	3510C	
480-161258-5	SUPE-W-12A-101619	Total/NA	Water	3510C	
480-161258-6	SUPE-EB-02-101619	Total/NA	Water	3510C	
480-161258-7	SUPE-W-12CR-101619	Total/NA	Water	3510C	
480-161258-8	SUPE-W-18D-101619	Total/NA	Water	3510C	
480-161258-9	SUPE-M-99A-101619	Total/NA	Water	3510C	
MB 480-499539/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-499539/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 500726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-2	SUPE-W-30C-101619	Total/NA	Water	8270D LL	499539
480-161258-3	SUPE-W-06A-101619	Total/NA	Water	8270D LL	499539
480-161258-4	SUPE-W-06C-101619	Total/NA	Water	8270D LL	499539
480-161258-5	SUPE-W-12A-101619	Total/NA	Water	8270D LL	499539
480-161258-6	SUPE-EB-02-101619	Total/NA	Water	8270D LL	499539
480-161258-7	SUPE-W-12CR-101619	Total/NA	Water	8270D LL	499539
480-161258-8	SUPE-W-18D-101619	Total/NA	Water	8270D LL	499539
480-161258-9	SUPE-M-99A-101619	Total/NA	Water	8270D LL	499539
MB 480-499539/1-A	Method Blank	Total/NA	Water	8270D LL	499539
LCS 480-499539/2-A	Lab Control Sample	Total/NA	Water	8270D LL	499539

Prep Batch: 511565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-2	SUPE-W-30C-101619	Total/NA	Water	3510C	
480-161258-3	SUPE-W-06A-101619	Total/NA	Water	3510C	
480-161258-4	SUPE-W-06C-101619	Total/NA	Water	3510C	
480-161258-5	SUPE-W-12A-101619	Total/NA	Water	3510C	
480-161258-6	SUPE-EB-02-101619	Total/NA	Water	3510C	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

GC/MS Semi VOA (Continued)

Prep Batch: 511565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-7	SUPE-W-12CR-101619	Total/NA	Water	3510C	
480-161258-8	SUPE-W-18D-101619	Total/NA	Water	3510C	
480-161258-9	SUPE-M-99A-101619	Total/NA	Water	3510C	
MB 500-511565/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-511565/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 511690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-511565/1-A	Method Blank	Total/NA	Water	8270D	511565
LCS 500-511565/2-A	Lab Control Sample	Total/NA	Water	8270D	511565

Analysis Batch: 512301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161258-2	SUPE-W-30C-101619	Total/NA	Water	8270D	511565
480-161258-3	SUPE-W-06A-101619	Total/NA	Water	8270D	511565
480-161258-4	SUPE-W-06C-101619	Total/NA	Water	8270D	511565
480-161258-5	SUPE-W-12A-101619	Total/NA	Water	8270D	511565
480-161258-6	SUPE-EB-02-101619	Total/NA	Water	8270D	511565
480-161258-7	SUPE-W-12CR-101619	Total/NA	Water	8270D	511565
480-161258-8	SUPE-W-18D-101619	Total/NA	Water	8270D	511565
480-161258-9	SUPE-M-99A-101619	Total/NA	Water	8270D	511565



Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-TB -02-101619

Lab Sample ID: 480-161258-1

Date Collected: 10/16/19 00:00

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500393	10/26/19 11:17	RJF	TAL BUF

Client Sample ID: SUPE-W-30C-101619

Lab Sample ID: 480-161258-2

Date Collected: 10/16/19 09:42

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500533	10/27/19 13:54	CRL	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/28/19 22:54	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 19:53	PJQ	TAL BUF

Client Sample ID: SUPE-W-06A-101619

Lab Sample ID: 480-161258-3

Date Collected: 10/16/19 11:11

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500533	10/27/19 14:18	CRL	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/28/19 23:18	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 20:22	PJQ	TAL BUF

Client Sample ID: SUPE-W-06C-101619

Lab Sample ID: 480-161258-4

Date Collected: 10/16/19 12:13

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500393	10/26/19 12:29	RJF	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/28/19 23:42	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 20:50	PJQ	TAL BUF

Client Sample ID: SUPE-W-12A-101619

Lab Sample ID: 480-161258-5

Date Collected: 10/16/19 13:22

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500393	10/26/19 12:54	RJF	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/29/19 00:06	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 21:18	PJQ	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Client Sample ID: SUPE-EB-02-101619

Lab Sample ID: 480-161258-6

Date Collected: 10/16/19 14:00

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500393	10/26/19 13:18	RJF	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/29/19 00:31	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 21:47	PJQ	TAL BUF

Client Sample ID: SUPE-W-12CR-101619

Lab Sample ID: 480-161258-7

Date Collected: 10/16/19 14:45

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500393	10/26/19 13:42	RJF	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/29/19 00:55	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 22:15	PJQ	TAL BUF

Client Sample ID: SUPE-W-18D-101619

Lab Sample ID: 480-161258-8

Date Collected: 10/16/19 16:10

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/29/19 01:19	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 22:43	PJQ	TAL BUF

Client Sample ID: SUPE-M-99A-101619

Lab Sample ID: 480-161258-9

Date Collected: 10/16/19 22:00

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	500393	10/26/19 14:06	RJF	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	512301	10/29/19 01:44	NRJ	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 23:12	PJQ	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	998310390	08-31-20

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

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

Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161258-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-161258-1	SUPE-TB -02-101619	Water	10/16/19 00:00	10/17/19 10:00	
480-161258-2	SUPE-W-30C-101619	Water	10/16/19 09:42	10/17/19 10:00	
480-161258-3	SUPE-W-06A-101619	Water	10/16/19 11:11	10/17/19 10:00	
480-161258-4	SUPE-W-06C-101619	Water	10/16/19 12:13	10/17/19 10:00	
480-161258-5	SUPE-W-12A-101619	Water	10/16/19 13:22	10/17/19 10:00	
480-161258-6	SUPE-EB-02-101619	Water	10/16/19 14:00	10/17/19 10:00	
480-161258-7	SUPE-W-12CR-101619	Water	10/16/19 14:45	10/17/19 10:00	
480-161258-8	SUPE-W-18D-101619	Water	10/16/19 16:10	10/17/19 10:00	
480-161258-9	SUPE-M-99A-101619	Water	10/16/19 22:00	10/17/19 10:00	



CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 501197

501197

Project Name: Superior 2019 2SA Sampling
 Project Number: OM-0556-19
 Laboratory: TABUF
 Shipment Method FEDEX

Company: Field & Technical Services
 Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
 Contact: (724) 858-5953
 btrask.2006@f-ts.com

Program: Superior 2019 2SA Sampling_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		8260B_VOA+naphtha	8270C_SVOC (less naphtha)	8270C_SVOC+naphtha	Notes:
					HCL	None				
				Total Bottle Count						
10/16/2019	0000	GW	SUPE-TB-02-101619	2	2	0				
10/16/2019	0942	GW	SUPE-W-30C-101619	5	2	3				
10/16/2019	1111	GW	SUPE-W-06A-101619	5	2	3				
10/16/2019	1213	GW	SUPE-W-06C-101619	5	2	3				
10/16/2019	1322	GW	SUPE-W-12A-101619	5	2	3				
10/16/2019	1400	GW	SUPE-EB-02-101619	5	2	3				
10/16/2019	1445	GW	SUPE-W-12CR-101619	5	2	3				
10/16/2019	1610	GW	SUPE-W-18D-101619	3	0	0	3			
10/16/2019	2200	GW	SUPE-M-99A-101619	5	2	3				



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Ben Trask	Printed Name:	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm: FTS	Firm:	Firm:	
Date/Time: 10/16/2019 1641	Date/Time: 10/17/19 1000	Date/Time:	Date/Time:	

2-8 4.1 #4
3.2 3.9



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161258-1

Login Number: 161258

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Manhardt, Kara M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	FTS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161258-1

Login Number: 161258

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

List Creation: 10/23/19 09:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-161261-1

Client Project/Site: Superior, WI Semiannual Groundwater
Revision: 3

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
11/22/2019 9:40:38 AM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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www.testamericainc.com

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

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

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



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Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Job ID: 480-161261-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-161261-1

Revised : to remove PCP from full list

Revised: to correct formatter

Comments

No additional comments.

Receipt

The samples were received on 10/17/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.8° C, 3.2° C, 3.4° C and 4.1° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-499719 recovered above the upper control limit for Styrene, n-Butylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and 1,1,1-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SUPE-TB -01-101519, SUPE-W -28C-101519 and SUPE-EB -01-101519.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-499719 recovered outside control limits for the following analytes: Styrene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and 1,1,1-Trichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Numerous analytes recovered outside of control limits (high) for the MS/MSD of sample SUPE W-28C-101519 in analytical batch 480-499719. Some of these analytes were biased high in the LCS. None of these analytes were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA Buffalo

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 480-500726 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: SUPE-W-28C-1101519 and SUPE-EB-01-101519.

Organic Prep

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: SUPE-EB -01-101519.

GC/MS Semi VOA Chicago

The laboratory control sample (LCS) for preparation batch 500-511565 and analytical batch 500-511690 recovered outside control limits for the following Pyrene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported

Method 8270D: 480-161261-2MSD had all surrogates and all spikes biased low. The MS was in control, with the exception of 2 analytes biased high. All RPD's were out of control. The MSD sample has been reanalyzed with similar results. The original sample was non-detect for all compounds. The MSD sample was not re-extracted as the holding times was exceeded.

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

Organic Prep Chicago

Method 3510C: (full list)

Heavy sample receipts in the Buffalo lab caused delays in login and shipping, as a result the SVOC full list samples,

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Job ID: 480-161261-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

SUPE-W-28-101519, MS, MSD, SUPE-EB-01-101519, were extracted one day outside of the recommended holding time;

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

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Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-TB -01-101519

Lab Sample ID: 480-161261-1

No Detections.

Client Sample ID: SUPE-W -28C-101519

Lab Sample ID: 480-161261-2

No Detections.

Client Sample ID: SUPE-EB -01-101519

Lab Sample ID: 480-161261-3

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-TB -01-101519

Lab Sample ID: 480-161261-1

Date Collected: 10/15/19 00:00

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			10/24/19 05:02	1
1,2,4-Trimethylbenzene	ND	*	1.0	0.75	ug/L			10/24/19 05:02	1
1,3,5-Trimethylbenzene	ND	*	1.0	0.77	ug/L			10/24/19 05:02	1
Benzene	ND		1.0	0.41	ug/L			10/24/19 05:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/24/19 05:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/24/19 05:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/24/19 05:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/24/19 05:02	1
Naphthalene	ND		1.0	0.43	ug/L			10/24/19 05:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/24/19 05:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/24/19 05:02	1
o-Xylene	ND		1.0	0.76	ug/L			10/24/19 05:02	1
Styrene	ND	*	1.0	0.73	ug/L			10/24/19 05:02	1
Toluene	ND		1.0	0.51	ug/L			10/24/19 05:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/24/19 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					10/24/19 05:02	1
4-Bromofluorobenzene (Surr)	109		73 - 120					10/24/19 05:02	1
Dibromofluoromethane (Surr)	109		75 - 123					10/24/19 05:02	1
Toluene-d8 (Surr)	104		80 - 120					10/24/19 05:02	1

Client Sample ID: SUPE-W -28C-101519

Lab Sample ID: 480-161261-2

Date Collected: 10/15/19 16:48

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1 *	1.0	0.82	ug/L			10/24/19 05:26	1
1,2,4-Trimethylbenzene	ND	F1 *	1.0	0.75	ug/L			10/24/19 05:26	1
1,3,5-Trimethylbenzene	ND	F1 *	1.0	0.77	ug/L			10/24/19 05:26	1
Benzene	ND		1.0	0.41	ug/L			10/24/19 05:26	1
Chloromethane	ND	F1	1.0	0.35	ug/L			10/24/19 05:26	1
Ethylbenzene	ND	F1	1.0	0.74	ug/L			10/24/19 05:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/24/19 05:26	1
m-Xylene & p-Xylene	ND	F1	2.0	0.66	ug/L			10/24/19 05:26	1
Naphthalene	ND		1.0	0.43	ug/L			10/24/19 05:26	1
n-Butylbenzene	ND	F1	1.0	0.64	ug/L			10/24/19 05:26	1
N-Propylbenzene	ND	F1	1.0	0.69	ug/L			10/24/19 05:26	1
o-Xylene	ND	F1	1.0	0.76	ug/L			10/24/19 05:26	1
Styrene	ND	F1 *	1.0	0.73	ug/L			10/24/19 05:26	1
Toluene	ND	F1	1.0	0.51	ug/L			10/24/19 05:26	1
Xylenes, Total	ND	F1	2.0	0.66	ug/L			10/24/19 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120					10/24/19 05:26	1
4-Bromofluorobenzene (Surr)	109		73 - 120					10/24/19 05:26	1
Dibromofluoromethane (Surr)	108		75 - 123					10/24/19 05:26	1
Toluene-d8 (Surr)	104		80 - 120					10/24/19 05:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-W -28C-101519

Lab Sample ID: 480-161261-2

Date Collected: 10/15/19 16:48

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		24 - 146				10/22/19 16:11	10/28/19 19:24	1
2-Fluorobiphenyl	103		37 - 120				10/22/19 16:11	10/28/19 19:24	1
2-Fluorophenol (Surr)	57		10 - 120				10/22/19 16:11	10/28/19 19:24	1
Nitrobenzene-d5 (Surr)	97		26 - 120				10/22/19 16:11	10/28/19 19:24	1
Phenol-d5 (Surr)	37		11 - 120				10/22/19 16:11	10/28/19 19:24	1
p-Terphenyl-d14	114		64 - 127				10/22/19 16:11	10/28/19 19:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H F2 F1	1.9	0.29	ug/L		10/23/19 15:07	10/24/19 15:19	1
1,2-Dichlorobenzene	ND	H F2 F1	1.9	0.28	ug/L		10/23/19 15:07	10/24/19 15:19	1
1,3-Dichlorobenzene	ND	H F2 F1	1.9	0.24	ug/L		10/23/19 15:07	10/24/19 15:19	1
1,4-Dichlorobenzene	ND	H F2 F1	1.9	0.26	ug/L		10/23/19 15:07	10/24/19 15:19	1
1-Methylnaphthalene	ND	H F2 F1	1.9	0.48	ug/L		10/23/19 15:07	10/24/19 15:19	1
bis(chloroisopropyl) ether	ND	H F1 F2	1.9	0.29	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,3,4,6-Tetrachlorophenol	ND	H F1	4.8	1.4	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,4,5-Trichlorophenol	ND	H F2 F1	9.5	2.2	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,4,6-Trichlorophenol	ND	H F2 F1	4.8	1.0	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,4-Dichlorophenol	ND	H F2 F1	9.5	2.2	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,4-Dinitrophenol	ND	H F2 F1	19	7.1	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,4-Dinitrotoluene	ND	H F2 F1	0.95	0.29	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,6-Dinitrotoluene	ND	H F2 F1	0.95	0.11	ug/L		10/23/19 15:07	10/24/19 15:19	1
3 & 4 Methylphenol	ND	H F2 F1	1.9	0.42	ug/L		10/23/19 15:07	10/24/19 15:19	1
2-Chloronaphthalene	ND	H F2 F1	1.9	0.32	ug/L		10/23/19 15:07	10/24/19 15:19	1
2-Chlorophenol	ND	H F2 F1	4.8	0.76	ug/L		10/23/19 15:07	10/24/19 15:19	1
2-Methylnaphthalene	ND	H F2 F1	1.9	0.12	ug/L		10/23/19 15:07	10/24/19 15:19	1
2-Methylphenol	ND	H F2 F1	1.9	0.29	ug/L		10/23/19 15:07	10/24/19 15:19	1
2-Nitroaniline	ND	H F2 F1	4.8	1.0	ug/L		10/23/19 15:07	10/24/19 15:19	1
2-Nitrophenol	ND	H F2 F1	9.5	2.0	ug/L		10/23/19 15:07	10/24/19 15:19	1
3-Nitroaniline	ND	H F2 F1	9.5	2.2	ug/L		10/23/19 15:07	10/24/19 15:19	1
4,6-Dinitro-2-methylphenol	ND	H F2 F1	19	4.7	ug/L		10/23/19 15:07	10/24/19 15:19	1
4-Bromophenyl phenyl ether	ND	H F2 F1	4.8	0.87	ug/L		10/23/19 15:07	10/24/19 15:19	1
4-Chloro-3-methylphenol	ND	H F2 F1	9.5	2.1	ug/L		10/23/19 15:07	10/24/19 15:19	1
4-Chloroaniline	ND	H F2 F1	9.5	2.0	ug/L		10/23/19 15:07	10/24/19 15:19	1
4-Chlorophenyl phenyl ether	ND	H F2 F1	4.8	0.77	ug/L		10/23/19 15:07	10/24/19 15:19	1
4-Nitroaniline	ND	H F2 F1	9.5	3.7	ug/L		10/23/19 15:07	10/24/19 15:19	1
4-Nitrophenol	ND	H F1	19	2.2	ug/L		10/23/19 15:07	10/24/19 15:19	1
Acenaphthene	ND	H F2 F1	0.95	0.34	ug/L		10/23/19 15:07	10/24/19 15:19	1
Acenaphthylene	ND	H F2 F1	0.95	0.30	ug/L		10/23/19 15:07	10/24/19 15:19	1
Anthracene	ND	H F2 F1	0.95	0.30	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzo[a]pyrene	ND	H F2 F1	0.19	0.053	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzo[b]fluoranthene	ND	H F2 F1	0.19	0.055	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzo[g,h,i]perylene	ND	H F2 F1	0.95	0.40	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzo[k]fluoranthene	ND	H F2 F1	0.19	0.070	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzoic acid	ND	H F1	19	4.3	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzyl alcohol	ND	H F2 F1	19	2.9	ug/L		10/23/19 15:07	10/24/19 15:19	1
Bis(2-chloroethoxy)methane	ND	H F2 F1	1.9	0.29	ug/L		10/23/19 15:07	10/24/19 15:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-W -28C-101519

Lab Sample ID: 480-161261-2

Date Collected: 10/15/19 16:48

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND	H F2 F1	1.9	0.33	ug/L		10/23/19 15:07	10/24/19 15:19	1
Bis(2-ethylhexyl) phthalate	ND	H F2 F1	9.5	2.3	ug/L		10/23/19 15:07	10/24/19 15:19	1
Butyl benzyl phthalate	ND	H F2 F1	1.9	0.26	ug/L		10/23/19 15:07	10/24/19 15:19	1
Chrysene	ND	H F2 F1	0.48	0.13	ug/L		10/23/19 15:07	10/24/19 15:19	1
Dibenz(a,h)anthracene	ND	H F2 F1	0.29	0.061	ug/L		10/23/19 15:07	10/24/19 15:19	1
Dibenzofuran	ND	H F2 F1	1.9	0.33	ug/L		10/23/19 15:07	10/24/19 15:19	1
Diethyl phthalate	ND	H F2 F1	1.9	0.42	ug/L		10/23/19 15:07	10/24/19 15:19	1
Dimethyl phthalate	ND	H F2 F1	1.9	0.36	ug/L		10/23/19 15:07	10/24/19 15:19	1
Di-n-butyl phthalate	ND	H F2 F1	4.8	0.76	ug/L		10/23/19 15:07	10/24/19 15:19	1
Di-n-octyl phthalate	ND	H F2 F1	9.5	2.3	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,3,5,6-Tetrachlorophenol	ND	H	4.8	2.4	ug/L		10/23/19 15:07	10/24/19 15:19	1
Fluoranthene	ND	H F2 F1	0.95	0.30	ug/L		10/23/19 15:07	10/24/19 15:19	1
Fluorene	ND	H F2 F1	0.95	0.36	ug/L		10/23/19 15:07	10/24/19 15:19	1
Hexachlorobenzene	ND	H F2 F1	0.48	0.13	ug/L		10/23/19 15:07	10/24/19 15:19	1
Hexachlorobutadiene	ND	H F2 F1	4.8	1.1	ug/L		10/23/19 15:07	10/24/19 15:19	1
Hexachlorocyclopentadiene	ND	H F1	19	3.3	ug/L		10/23/19 15:07	10/24/19 15:19	1
Hexachloroethane	ND	H F2 F1	4.8	0.92	ug/L		10/23/19 15:07	10/24/19 15:19	1
Indeno[1,2,3-cd]pyrene	ND	H F2 F1	0.19	0.080	ug/L		10/23/19 15:07	10/24/19 15:19	1
Isophorone	ND	H F2 F1	1.9	0.28	ug/L		10/23/19 15:07	10/24/19 15:19	1
Nitrobenzene	ND	H F2 F1	0.95	0.43	ug/L		10/23/19 15:07	10/24/19 15:19	1
N-Nitrosodi-n-propylamine	ND	H F2 F1	0.48	0.13	ug/L		10/23/19 15:07	10/24/19 15:19	1
N-Nitrosodiphenylamine	ND	H F2 F1	1.9	0.32	ug/L		10/23/19 15:07	10/24/19 15:19	1
Phenol	ND	H F2 F1	4.8	0.34	ug/L		10/23/19 15:07	10/24/19 15:19	1
Pyrene	ND	H F1 F2 *	0.95	0.46	ug/L		10/23/19 15:07	10/24/19 15:19	1
2,4-Dimethylphenol	ND	H F2 F1	9.5	3.2	ug/L		10/23/19 15:07	10/24/19 15:19	1
Benzo[a]anthracene	ND	H F2 F1	0.19	0.042	ug/L		10/23/19 15:07	10/24/19 15:19	1
Phenanthrene	ND	H F2 F1	0.95	0.33	ug/L		10/23/19 15:07	10/24/19 15:19	1
3,3'-Dichlorobenzidine	ND	H F2 F1	4.8	0.89	ug/L		10/23/19 15:07	10/24/19 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		40 - 145	10/23/19 15:07	10/24/19 15:19	1
2-Fluorobiphenyl	102		34 - 110	10/23/19 15:07	10/24/19 15:19	1
2-Fluorophenol (Surr)	51		27 - 110	10/23/19 15:07	10/24/19 15:19	1
Nitrobenzene-d5 (Surr)	99		36 - 120	10/23/19 15:07	10/24/19 15:19	1
Phenol-d5 (Surr)	36		20 - 100	10/23/19 15:07	10/24/19 15:19	1
Terphenyl-d14 (Surr)	104		40 - 145	10/23/19 15:07	10/24/19 15:19	1

Client Sample ID: SUPE-EB -01-101519

Lab Sample ID: 480-161261-3

Date Collected: 10/15/19 17:41

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*	1.0	0.82	ug/L			10/24/19 05:51	1
1,2,4-Trimethylbenzene	ND	*	1.0	0.75	ug/L			10/24/19 05:51	1
1,3,5-Trimethylbenzene	ND	*	1.0	0.77	ug/L			10/24/19 05:51	1
Benzene	ND		1.0	0.41	ug/L			10/24/19 05:51	1
Chloromethane	ND		1.0	0.35	ug/L			10/24/19 05:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/24/19 05:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/24/19 05:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-EB -01-101519

Lab Sample ID: 480-161261-3

Date Collected: 10/15/19 17:41

Matrix: Water

Date Received: 10/17/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/24/19 05:51	1
Naphthalene	ND		1.0	0.43	ug/L			10/24/19 05:51	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/24/19 05:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/24/19 05:51	1
o-Xylene	ND		1.0	0.76	ug/L			10/24/19 05:51	1
Styrene	ND	*	1.0	0.73	ug/L			10/24/19 05:51	1
Toluene	ND		1.0	0.51	ug/L			10/24/19 05:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/24/19 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		10/24/19 05:51	1
4-Bromofluorobenzene (Surr)	107		73 - 120		10/24/19 05:51	1
Dibromofluoromethane (Surr)	111		75 - 123		10/24/19 05:51	1
Toluene-d8 (Surr)	104		80 - 120		10/24/19 05:51	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.5	0.52	ug/L		10/22/19 16:11	10/28/19 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		24 - 146	10/22/19 16:11	10/28/19 23:41	1
2-Fluorobiphenyl	105		37 - 120	10/22/19 16:11	10/28/19 23:41	1
2-Fluorophenol (Surr)	73		10 - 120	10/22/19 16:11	10/28/19 23:41	1
Nitrobenzene-d5 (Surr)	101		26 - 120	10/22/19 16:11	10/28/19 23:41	1
Phenol-d5 (Surr)	55		11 - 120	10/22/19 16:11	10/28/19 23:41	1
p-Terphenyl-d14	116		64 - 127	10/22/19 16:11	10/28/19 23:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	2.2	0.32	ug/L		10/23/19 15:08	10/24/19 15:43	1
1,2-Dichlorobenzene	ND	H	2.2	0.31	ug/L		10/23/19 15:08	10/24/19 15:43	1
1,3-Dichlorobenzene	ND	H	2.2	0.27	ug/L		10/23/19 15:08	10/24/19 15:43	1
1,4-Dichlorobenzene	ND	H	2.2	0.29	ug/L		10/23/19 15:08	10/24/19 15:43	1
1-Methylnaphthalene	ND	H	2.2	0.54	ug/L		10/23/19 15:08	10/24/19 15:43	1
bis(chloroisopropyl) ether	ND	H	2.2	0.32	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,3,4,6-Tetrachlorophenol	ND	H	5.4	1.6	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,4,5-Trichlorophenol	ND	H	11	2.5	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,4,6-Trichlorophenol	ND	H	5.4	1.2	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,4-Dichlorophenol	ND	H	11	2.5	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,4-Dinitrophenol	ND	H	22	8.0	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,4-Dinitrotoluene	ND	H	1.1	0.32	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,6-Dinitrotoluene	ND	H	1.1	0.13	ug/L		10/23/19 15:08	10/24/19 15:43	1
3 & 4 Methylphenol	ND	H	2.2	0.47	ug/L		10/23/19 15:08	10/24/19 15:43	1
2-Chloronaphthalene	ND	H	2.2	0.37	ug/L		10/23/19 15:08	10/24/19 15:43	1
2-Chlorophenol	ND	H	5.4	0.86	ug/L		10/23/19 15:08	10/24/19 15:43	1
2-Methylnaphthalene	ND	H	2.2	0.14	ug/L		10/23/19 15:08	10/24/19 15:43	1
2-Methylphenol	ND	H	2.2	0.33	ug/L		10/23/19 15:08	10/24/19 15:43	1
2-Nitroaniline	ND	H	5.4	1.2	ug/L		10/23/19 15:08	10/24/19 15:43	1
2-Nitrophenol	ND	H	11	2.3	ug/L		10/23/19 15:08	10/24/19 15:43	1
3-Nitroaniline	ND	H	11	2.5	ug/L		10/23/19 15:08	10/24/19 15:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-EB -01-101519

Lab Sample ID: 480-161261-3

Date Collected: 10/15/19 17:41

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	H	22	5.3	ug/L		10/23/19 15:08	10/24/19 15:43	1
4-Bromophenyl phenyl ether	ND	H	5.4	0.98	ug/L		10/23/19 15:08	10/24/19 15:43	1
4-Chloro-3-methylphenol	ND	H	11	2.4	ug/L		10/23/19 15:08	10/24/19 15:43	1
4-Chloroaniline	ND	H	11	2.3	ug/L		10/23/19 15:08	10/24/19 15:43	1
4-Chlorophenyl phenyl ether	ND	H	5.4	0.87	ug/L		10/23/19 15:08	10/24/19 15:43	1
4-Nitroaniline	ND	H	11	4.2	ug/L		10/23/19 15:08	10/24/19 15:43	1
4-Nitrophenol	ND	H	22	2.5	ug/L		10/23/19 15:08	10/24/19 15:43	1
Acenaphthene	ND	H	1.1	0.39	ug/L		10/23/19 15:08	10/24/19 15:43	1
Acenaphthylene	ND	H	1.1	0.35	ug/L		10/23/19 15:08	10/24/19 15:43	1
Anthracene	ND	H	1.1	0.35	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzo[a]pyrene	ND	H	0.22	0.060	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzo[b]fluoranthene	ND	H	0.22	0.063	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzo[g,h,i]perylene	ND	H	1.1	0.45	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzo[k]fluoranthene	ND	H	0.22	0.080	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzoic acid	ND	H	22	4.9	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzyl alcohol	ND	H	22	3.3	ug/L		10/23/19 15:08	10/24/19 15:43	1
Bis(2-chloroethoxy)methane	ND	H	2.2	0.32	ug/L		10/23/19 15:08	10/24/19 15:43	1
Bis(2-chloroethyl)ether	ND	H	2.2	0.38	ug/L		10/23/19 15:08	10/24/19 15:43	1
Bis(2-ethylhexyl) phthalate	ND	H	11	2.6	ug/L		10/23/19 15:08	10/24/19 15:43	1
Butyl benzyl phthalate	ND	H	2.2	0.29	ug/L		10/23/19 15:08	10/24/19 15:43	1
Chrysene	ND	H	0.54	0.15	ug/L		10/23/19 15:08	10/24/19 15:43	1
Dibenz(a,h)anthracene	ND	H	0.32	0.069	ug/L		10/23/19 15:08	10/24/19 15:43	1
Dibenzofuran	ND	H	2.2	0.38	ug/L		10/23/19 15:08	10/24/19 15:43	1
Diethyl phthalate	ND	H	2.2	0.47	ug/L		10/23/19 15:08	10/24/19 15:43	1
Dimethyl phthalate	ND	H	2.2	0.41	ug/L		10/23/19 15:08	10/24/19 15:43	1
Di-n-butyl phthalate	ND	H	5.4	0.86	ug/L		10/23/19 15:08	10/24/19 15:43	1
Di-n-octyl phthalate	ND	H	11	2.7	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,3,5,6-Tetrachlorophenol	ND	H	5.4	2.7	ug/L		10/23/19 15:08	10/24/19 15:43	1
Fluoranthene	ND	H	1.1	0.35	ug/L		10/23/19 15:08	10/24/19 15:43	1
Fluorene	ND	H	1.1	0.41	ug/L		10/23/19 15:08	10/24/19 15:43	1
Hexachlorobenzene	ND	H	0.54	0.15	ug/L		10/23/19 15:08	10/24/19 15:43	1
Hexachlorobutadiene	ND	H	5.4	1.2	ug/L		10/23/19 15:08	10/24/19 15:43	1
Hexachlorocyclopentadiene	ND	H	22	3.7	ug/L		10/23/19 15:08	10/24/19 15:43	1
Hexachloroethane	ND	H	5.4	1.0	ug/L		10/23/19 15:08	10/24/19 15:43	1
Indeno[1,2,3-cd]pyrene	ND	H	0.22	0.091	ug/L		10/23/19 15:08	10/24/19 15:43	1
Isophorone	ND	H	2.2	0.31	ug/L		10/23/19 15:08	10/24/19 15:43	1
Nitrobenzene	ND	H	1.1	0.49	ug/L		10/23/19 15:08	10/24/19 15:43	1
N-Nitrosodi-n-propylamine	ND	H	0.54	0.15	ug/L		10/23/19 15:08	10/24/19 15:43	1
N-Nitrosodiphenylamine	ND	H	2.2	0.37	ug/L		10/23/19 15:08	10/24/19 15:43	1
Phenol	ND	H	5.4	0.39	ug/L		10/23/19 15:08	10/24/19 15:43	1
Pyrene	ND	H *	1.1	0.52	ug/L		10/23/19 15:08	10/24/19 15:43	1
2,4-Dimethylphenol	ND	H	11	3.6	ug/L		10/23/19 15:08	10/24/19 15:43	1
Benzo[a]anthracene	ND	H	0.22	0.047	ug/L		10/23/19 15:08	10/24/19 15:43	1
Phenanthrene	ND	H	1.1	0.38	ug/L		10/23/19 15:08	10/24/19 15:43	1
3,3'-Dichlorobenzidine	ND	H	5.4	1.0	ug/L		10/23/19 15:08	10/24/19 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		40 - 145	10/23/19 15:08	10/24/19 15:43	1
2-Fluorobiphenyl	100		34 - 110	10/23/19 15:08	10/24/19 15:43	1
2-Fluorophenol (Surr)	59		27 - 110	10/23/19 15:08	10/24/19 15:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-EB -01-101519

Lab Sample ID: 480-161261-3

Date Collected: 10/15/19 17:41

Matrix: Water

Date Received: 10/17/19 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Nitrobenzene-d5 (Surr)</i>	99		36 - 120	10/23/19 15:08	10/24/19 15:43	1
<i>Phenol-d5 (Surr)</i>	41		20 - 100	10/23/19 15:08	10/24/19 15:43	1
<i>Terphenyl-d14 (Surr)</i>	113		40 - 145	10/23/19 15:08	10/24/19 15:43	1

Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-161261-1	SUPE-TB -01-101519	109	109	109	104
480-161261-2	SUPE-W -28C-101519	109	109	108	104
480-161261-2 MS	SUPE-W -28C-101519	107	104	108	101
480-161261-2 MSD	SUPE-W -28C-101519	109	108	108	104
480-161261-3	SUPE-EB -01-101519	112	107	111	104
LCS 480-499719/5	Lab Control Sample	111	108	115	107
MB 480-499719/7	Method Blank	111	106	110	105

Surrogate Legend

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

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)
480-161261-2	SUPE-W -28C-101519	102	102	51	99	36	104
480-161261-2 MS	SUPE-W -28C-101519	110	104	58	97	39	107
480-161261-2 MSD	SUPE-W -28C-101519	15 X	21 X	13 X	20 X	7 X	23 X
480-161261-3	SUPE-EB -01-101519	89	100	59	99	41	113
LCS 500-511565/2-A	Lab Control Sample	113	98	62	94	43	117
MB 500-511565/1-A	Method Blank	50	86	32	87	31	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-161261-2	SUPE-W -28C-101519	99	103	57	97	37	114
480-161261-2 MS	SUPE-W -28C-101519	121	105	56	106	39	113
480-161261-2 MSD	SUPE-W -28C-101519	121	103	56	106	39	113
480-161261-3	SUPE-EB -01-101519	87	105	73	101	55	116
LCS 480-499539/2-A	Lab Control Sample	116	101	56	102	40	117
MB 480-499539/1-A	Method Blank	56	87	47	80	34	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)

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Surrogate Summary

Client: Field & Technical Services LLC

Project/Site: Superior, WI Semiannual Groundwater

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14

Job ID: 480-161261-1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

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

Lab Sample ID: MB 480-499719/7
Matrix: Water
Analysis Batch: 499719

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/23/19 22:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/23/19 22:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/23/19 22:32	1
Benzene	ND		1.0	0.41	ug/L			10/23/19 22:32	1
Chloromethane	ND		1.0	0.35	ug/L			10/23/19 22:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/23/19 22:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/23/19 22:32	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/23/19 22:32	1
Naphthalene	ND		1.0	0.43	ug/L			10/23/19 22:32	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/23/19 22:32	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/23/19 22:32	1
o-Xylene	ND		1.0	0.76	ug/L			10/23/19 22:32	1
Styrene	ND		1.0	0.73	ug/L			10/23/19 22:32	1
Toluene	ND		1.0	0.51	ug/L			10/23/19 22:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/23/19 22:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		10/23/19 22:32	1
4-Bromofluorobenzene (Surr)	106		73 - 120		10/23/19 22:32	1
Dibromofluoromethane (Surr)	110		75 - 123		10/23/19 22:32	1
Toluene-d8 (Surr)	105		80 - 120		10/23/19 22:32	1

Lab Sample ID: LCS 480-499719/5
Matrix: Water
Analysis Batch: 499719

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	33.2	*	ug/L		133	73 - 126
1,2,4-Trimethylbenzene	25.0	32.6	*	ug/L		131	76 - 121
1,3,5-Trimethylbenzene	25.0	31.9	*	ug/L		127	77 - 121
Benzene	25.0	29.3		ug/L		117	71 - 124
Chloromethane	25.0	28.3		ug/L		113	68 - 124
Ethylbenzene	25.0	29.8		ug/L		119	77 - 123
Methyl tert-butyl ether	25.0	29.1		ug/L		116	77 - 120
m-Xylene & p-Xylene	25.0	29.9		ug/L		120	76 - 122
Naphthalene	25.0	26.7		ug/L		107	66 - 125
n-Butylbenzene	25.0	30.6		ug/L		122	71 - 128
N-Propylbenzene	25.0	30.3		ug/L		121	75 - 127
o-Xylene	25.0	29.6		ug/L		118	76 - 122
Styrene	25.0	30.4	*	ug/L		122	80 - 120
Toluene	25.0	29.1		ug/L		116	80 - 122
Xylenes, Total	50.0	59.5		ug/L		119	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	115		75 - 123
Toluene-d8 (Surr)	107		80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

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

Lab Sample ID: 480-161261-2 MS

Matrix: Water

Analysis Batch: 499719

Client Sample ID: SUPE-W -28C-101519

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
1,1,1-Trichloroethane	ND	F1 *	25.0	35.9	F1	ug/L		144	73 - 126
1,2,4-Trimethylbenzene	ND	F1 *	25.0	31.6	F1	ug/L		126	76 - 121
1,3,5-Trimethylbenzene	ND	F1 *	25.0	31.3	F1	ug/L		125	77 - 121
Benzene	ND		25.0	30.9		ug/L		124	71 - 124
Chloromethane	ND	F1	25.0	31.3	F1	ug/L		125	68 - 124
Ethylbenzene	ND	F1	25.0	31.5	F1	ug/L		126	77 - 123
Methyl tert-butyl ether	ND		25.0	29.2		ug/L		117	77 - 120
m-Xylene & p-Xylene	ND	F1	25.0	31.6	F1	ug/L		126	76 - 122
Naphthalene	ND		25.0	25.4		ug/L		102	66 - 125
n-Butylbenzene	ND	F1	25.0	30.9		ug/L		123	71 - 128
N-Propylbenzene	ND	F1	25.0	30.9		ug/L		124	75 - 127
o-Xylene	ND	F1	25.0	30.4		ug/L		122	76 - 122
Styrene	ND	F1 *	25.0	30.7	F1	ug/L		123	80 - 120
Toluene	ND	F1	25.0	30.5		ug/L		122	80 - 122
Xylenes, Total	ND	F1	50.0	62.0	F1	ug/L		124	76 - 122

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 480-161261-2 MSD

Matrix: Water

Analysis Batch: 499719

Client Sample ID: SUPE-W -28C-101519

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier						
1,1,1-Trichloroethane	ND	F1 *	25.0	36.4	F1	ug/L		145	73 - 126	1	15
1,2,4-Trimethylbenzene	ND	F1 *	25.0	33.2	F1	ug/L		133	76 - 121	5	20
1,3,5-Trimethylbenzene	ND	F1 *	25.0	32.7	F1	ug/L		131	77 - 121	4	20
Benzene	ND		25.0	31.1		ug/L		124	71 - 124	1	13
Chloromethane	ND	F1	25.0	30.9		ug/L		124	68 - 124	1	15
Ethylbenzene	ND	F1	25.0	32.6	F1	ug/L		130	77 - 123	4	15
Methyl tert-butyl ether	ND		25.0	29.1		ug/L		117	77 - 120	0	37
m-Xylene & p-Xylene	ND	F1	25.0	32.3	F1	ug/L		129	76 - 122	2	16
Naphthalene	ND		25.0	26.7		ug/L		107	66 - 125	5	20
n-Butylbenzene	ND	F1	25.0	32.7	F1	ug/L		131	71 - 128	6	15
N-Propylbenzene	ND	F1	25.0	32.1	F1	ug/L		128	75 - 127	4	15
o-Xylene	ND	F1	25.0	31.6	F1	ug/L		127	76 - 122	4	16
Styrene	ND	F1 *	25.0	31.9	F1	ug/L		128	80 - 120	4	20
Toluene	ND	F1	25.0	31.3	F1	ug/L		125	80 - 122	3	15
Xylenes, Total	ND	F1	50.0	63.9	F1	ug/L		128	76 - 122	3	16

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	104		80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-511565/1-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511565

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		10/23/19 15:07	10/24/19 12:07	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		10/23/19 15:07	10/24/19 12:07	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		10/23/19 15:07	10/24/19 12:07	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		10/23/19 15:07	10/24/19 12:07	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		10/23/19 15:07	10/24/19 12:07	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Chlorophenol	ND		5.0	0.80	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Methylphenol	ND		2.0	0.31	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Nitroaniline	ND		5.0	1.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
2-Nitrophenol	ND		10	2.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
3-Nitroaniline	ND		10	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Chloroaniline	ND		10	2.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Nitroaniline	ND		10	3.9	ug/L		10/23/19 15:07	10/24/19 12:07	1
4-Nitrophenol	ND		20	2.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
Acenaphthene	ND		1.0	0.36	ug/L		10/23/19 15:07	10/24/19 12:07	1
Acenaphthylene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/24/19 12:07	1
Anthracene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzoic acid	ND		20	4.6	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzyl alcohol	ND		20	3.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		10/23/19 15:07	10/24/19 12:07	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		10/23/19 15:07	10/24/19 12:07	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/23/19 15:07	10/24/19 12:07	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		10/23/19 15:07	10/24/19 12:07	1
Chrysene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/24/19 12:07	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		10/23/19 15:07	10/24/19 12:07	1
Dibenzofuran	ND		2.0	0.35	ug/L		10/23/19 15:07	10/24/19 12:07	1
Diethyl phthalate	ND		2.0	0.44	ug/L		10/23/19 15:07	10/24/19 12:07	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		10/23/19 15:07	10/24/19 12:07	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		10/23/19 15:07	10/24/19 12:07	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		10/23/19 15:07	10/24/19 12:07	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-511565/1-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511565

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		10/23/19 15:07	10/24/19 12:07	1
Fluoranthene	ND		1.0	0.32	ug/L		10/23/19 15:07	10/24/19 12:07	1
Fluorene	ND		1.0	0.38	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		10/23/19 15:07	10/24/19 12:07	1
Hexachloroethane	ND		5.0	0.97	ug/L		10/23/19 15:07	10/24/19 12:07	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		10/23/19 15:07	10/24/19 12:07	1
Isophorone	ND		2.0	0.29	ug/L		10/23/19 15:07	10/24/19 12:07	1
Nitrobenzene	ND		1.0	0.45	ug/L		10/23/19 15:07	10/24/19 12:07	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		10/23/19 15:07	10/24/19 12:07	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		10/23/19 15:07	10/24/19 12:07	1
Phenol	ND		5.0	0.36	ug/L		10/23/19 15:07	10/24/19 12:07	1
Pyrene	ND		1.0	0.48	ug/L		10/23/19 15:07	10/24/19 12:07	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		10/23/19 15:07	10/24/19 12:07	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		10/23/19 15:07	10/24/19 12:07	1
Phenanthrene	ND		1.0	0.35	ug/L		10/23/19 15:07	10/24/19 12:07	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		10/23/19 15:07	10/24/19 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		40 - 145	10/23/19 15:07	10/24/19 12:07	1
2-Fluorobiphenyl	86		34 - 110	10/23/19 15:07	10/24/19 12:07	1
2-Fluorophenol (Surr)	32		27 - 110	10/23/19 15:07	10/24/19 12:07	1
Nitrobenzene-d5 (Surr)	87		36 - 120	10/23/19 15:07	10/24/19 12:07	1
Phenol-d5 (Surr)	31		20 - 100	10/23/19 15:07	10/24/19 12:07	1
Terphenyl-d14 (Surr)	104		40 - 145	10/23/19 15:07	10/24/19 12:07	1

Lab Sample ID: LCS 500-511565/2-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	40.0	26.9		ug/L		67	26 - 110
1,2-Dichlorobenzene	40.0	26.3		ug/L		66	26 - 110
1,3-Dichlorobenzene	40.0	25.6		ug/L		64	22 - 110
1,4-Dichlorobenzene	40.0	25.7		ug/L		64	23 - 110
1-Methylnaphthalene	40.0	29.9		ug/L		75	38 - 110
bis(chloroisopropyl) ether	40.0	40.4		ug/L		101	38 - 110
2,3,4,6-Tetrachlorophenol	40.0	36.7		ug/L		92	44 - 118
2,4,5-Trichlorophenol	40.0	43.5		ug/L		109	63 - 120
2,4,6-Trichlorophenol	40.0	43.1		ug/L		108	62 - 110
2,4-Dichlorophenol	40.0	40.9		ug/L		102	62 - 110
2,4-Dinitrophenol	80.0	93.6		ug/L		117	37 - 130
2,4-Dinitrotoluene	40.0	46.0		ug/L		115	63 - 122
2,6-Dinitrotoluene	40.0	45.5		ug/L		114	63 - 119
3 & 4 Methylphenol	40.0	31.6		ug/L		79	53 - 110
2-Chloronaphthalene	40.0	33.1		ug/L		83	39 - 110
2-Chlorophenol	40.0	37.7		ug/L		94	59 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-511565/2-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	40.0	29.5		ug/L		74	34 - 110
2-Methylphenol	40.0	35.9		ug/L		90	53 - 110
2-Nitroaniline	40.0	45.4		ug/L		113	59 - 122
2-Nitrophenol	40.0	37.8		ug/L		95	58 - 110
3-Nitroaniline	40.0	37.9		ug/L		95	47 - 123
4,6-Dinitro-2-methylphenol	80.0	87.9		ug/L		110	50 - 117
4-Bromophenyl phenyl ether	40.0	41.5		ug/L		104	58 - 120
4-Chloro-3-methylphenol	40.0	41.9		ug/L		105	64 - 120
4-Chloroaniline	40.0	42.4		ug/L		106	35 - 128
4-Chlorophenyl phenyl ether	40.0	38.2		ug/L		96	47 - 112
4-Nitroaniline	40.0	30.4		ug/L		76	52 - 147
4-Nitrophenol	80.0	25.7		ug/L		32	20 - 110
Acenaphthene	40.0	36.8		ug/L		92	46 - 110
Acenaphthylene	40.0	37.7		ug/L		94	47 - 110
Anthracene	40.0	42.3		ug/L		106	67 - 110
Benzo[a]pyrene	40.0	44.6		ug/L		112	70 - 120
Benzo[b]fluoranthene	40.0	44.0		ug/L		110	69 - 123
Benzo[g,h,i]perylene	40.0	45.4		ug/L		114	70 - 120
Benzo[k]fluoranthene	40.0	44.8		ug/L		112	70 - 120
Benzoic acid	80.0	27.0		ug/L		34	10 - 100
Benzyl alcohol	40.0	37.2		ug/L		93	33 - 127
Bis(2-chloroethoxy)methane	40.0	38.6		ug/L		96	60 - 110
Bis(2-chloroethyl)ether	40.0	36.8		ug/L		92	49 - 110
Bis(2-ethylhexyl) phthalate	40.0	45.5		ug/L		114	69 - 120
Butyl benzyl phthalate	40.0	45.6		ug/L		114	68 - 120
Chrysene	40.0	46.3		ug/L		116	68 - 120
Dibenz(a,h)anthracene	40.0	46.4		ug/L		116	70 - 127
Dibenzofuran	40.0	38.8		ug/L		97	51 - 110
Diethyl phthalate	40.0	44.0		ug/L		110	62 - 120
Dimethyl phthalate	40.0	44.5		ug/L		111	63 - 120
Di-n-butyl phthalate	40.0	43.6		ug/L		109	70 - 120
Di-n-octyl phthalate	40.0	45.6		ug/L		114	70 - 122
Fluoranthene	40.0	45.1		ug/L		113	68 - 120
Fluorene	40.0	39.7		ug/L		99	53 - 120
Hexachlorobenzene	40.0	42.3		ug/L		106	61 - 120
Hexachlorobutadiene	40.0	24.2		ug/L		61	20 - 100
Hexachlorocyclopentadiene	40.0	15.2	J	ug/L		38	10 - 100
Hexachloroethane	40.0	23.5		ug/L		59	20 - 100
Indeno[1,2,3-cd]pyrene	40.0	46.0		ug/L		115	65 - 133
Isophorone	40.0	39.6		ug/L		99	57 - 110
Nitrobenzene	40.0	36.3		ug/L		91	53 - 110
N-Nitrosodi-n-propylamine	40.0	36.6		ug/L		91	58 - 110
N-Nitrosodiphenylamine	40.0	42.0		ug/L		105	66 - 110
Pentachlorophenol	80.0	59.0		ug/L		74	23 - 129
Phenol	40.0	17.5		ug/L		44	33 - 100
Pyrene	40.0	46.0	*	ug/L		115	70 - 110
2,4-Dimethylphenol	40.0	39.7		ug/L		99	51 - 110
Benzo[a]anthracene	40.0	44.8		ug/L		112	70 - 120
Phenanthrene	40.0	42.4		ug/L		106	65 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-511565/2-A
Matrix: Water
Analysis Batch: 511690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3,3'-Dichlorobenzidine	40.0	45.0		ug/L		113	60 - 132
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	113		40 - 145				
2-Fluorobiphenyl	98		34 - 110				
2-Fluorophenol (Surr)	62		27 - 110				
Nitrobenzene-d5 (Surr)	94		36 - 120				
Phenol-d5 (Surr)	43		20 - 100				
Terphenyl-d14 (Surr)	117		40 - 145				

Lab Sample ID: 480-161261-2 MS
Matrix: Water
Analysis Batch: 511690

Client Sample ID: SUPE-W -28C-101519
Prep Type: Total/NA
Prep Batch: 511565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND	H F2 F1	39.1	31.3	H	ug/L		80	26 - 110
1,2-Dichlorobenzene	ND	H F2 F1	39.1	29.1	H	ug/L		74	26 - 110
1,3-Dichlorobenzene	ND	H F2 F1	39.1	29.2	H	ug/L		75	22 - 110
1,4-Dichlorobenzene	ND	H F2 F1	39.1	29.2	H	ug/L		75	23 - 110
1-Methylnaphthalene	ND	H F2 F1	39.1	34.3	H	ug/L		88	38 - 110
bis(chloroisopropyl) ether	ND	H F1 F2	39.1	43.4	H F1	ug/L		111	38 - 110
2,3,4,6-Tetrachlorophenol	ND	H F1	39.1	30.6	H	ug/L		78	44 - 118
2,4,5-Trichlorophenol	ND	H F2 F1	39.1	40.2	H	ug/L		103	63 - 120
2,4,6-Trichlorophenol	ND	H F2 F1	39.1	41.5	H	ug/L		106	62 - 110
2,4-Dichlorophenol	ND	H F2 F1	39.1	40.0	H	ug/L		102	62 - 110
2,4-Dinitrophenol	ND	H F2 F1	78.2	86.8	H	ug/L		111	37 - 130
2,4-Dinitrotoluene	ND	H F2 F1	39.1	42.5	H	ug/L		109	63 - 122
2,6-Dinitrotoluene	ND	H F2 F1	39.1	43.3	H	ug/L		111	63 - 119
3 & 4 Methylphenol	ND	H F2 F1	39.1	28.3	H	ug/L		72	53 - 110
2-Chloronaphthalene	ND	H F2 F1	39.1	37.1	H	ug/L		95	39 - 110
2-Chlorophenol	ND	H F2 F1	39.1	36.8	H	ug/L		94	59 - 110
2-Methylnaphthalene	ND	H F2 F1	39.1	34.3	H	ug/L		88	34 - 110
2-Methylphenol	ND	H F2 F1	39.1	33.1	H	ug/L		84	53 - 110
2-Nitroaniline	ND	H F2 F1	39.1	42.2	H	ug/L		108	59 - 122
2-Nitrophenol	ND	H F2 F1	39.1	38.5	H	ug/L		98	58 - 110
3-Nitroaniline	ND	H F2 F1	39.1	36.4	H	ug/L		93	47 - 123
4,6-Dinitro-2-methylphenol	ND	H F2 F1	78.2	84.3	H	ug/L		108	50 - 117
4-Bromophenyl phenyl ether	ND	H F2 F1	39.1	40.4	H	ug/L		103	58 - 120
4-Chloro-3-methylphenol	ND	H F2 F1	39.1	39.6	H	ug/L		101	64 - 120
4-Chloroaniline	ND	H F2 F1	39.1	40.0	H	ug/L		102	35 - 128
4-Chlorophenyl phenyl ether	ND	H F2 F1	39.1	36.3	H	ug/L		93	47 - 112
4-Nitroaniline	ND	H F2 F1	39.1	30.6	H	ug/L		78	52 - 147
4-Nitrophenol	ND	H F1	78.2	18.8	J H	ug/L		24	20 - 110
Acenaphthene	ND	H F2 F1	39.1	38.6	H	ug/L		99	46 - 110
Acenaphthylene	ND	H F2 F1	39.1	38.9	H	ug/L		99	47 - 110
Anthracene	ND	H F2 F1	39.1	40.6	H	ug/L		104	67 - 110
Benzo[a]pyrene	ND	H F2 F1	39.1	42.4	H	ug/L		108	70 - 120
Benzo[b]fluoranthene	ND	H F2 F1	39.1	43.2	H	ug/L		111	69 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-161261-2 MS

Matrix: Water

Analysis Batch: 511690

Client Sample ID: SUPE-W -28C-101519

Prep Type: Total/NA

Prep Batch: 511565

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Benzo[g,h,i]perylene	ND	H F2 F1	39.1	42.8	H	ug/L		109		70 - 120
Benzo[k]fluoranthene	ND	H F2 F1	39.1	40.7	H	ug/L		104		70 - 120
Benzoic acid	ND	H F1	78.2	25.7	H	ug/L		33		10 - 100
Benzyl alcohol	ND	H F2 F1	39.1	34.7	H	ug/L		89		33 - 127
Bis(2-chloroethoxy)methane	ND	H F2 F1	39.1	37.4	H	ug/L		96		60 - 110
Bis(2-chloroethyl)ether	ND	H F2 F1	39.1	36.9	H	ug/L		94		49 - 110
Bis(2-ethylhexyl) phthalate	ND	H F2 F1	39.1	42.3	H	ug/L		108		69 - 120
Butyl benzyl phthalate	ND	H F2 F1	39.1	42.6	H	ug/L		109		68 - 120
Chrysene	ND	H F2 F1	39.1	42.8	H	ug/L		109		68 - 120
Dibenz(a,h)anthracene	ND	H F2 F1	39.1	43.7	H	ug/L		112		70 - 127
Dibenzofuran	ND	H F2 F1	39.1	39.5	H	ug/L		101		51 - 110
Diethyl phthalate	ND	H F2 F1	39.1	42.0	H	ug/L		107		62 - 120
Dimethyl phthalate	ND	H F2 F1	39.1	41.9	H	ug/L		107		63 - 120
Di-n-butyl phthalate	ND	H F2 F1	39.1	41.7	H	ug/L		106		70 - 120
Di-n-octyl phthalate	ND	H F2 F1	39.1	42.6	H	ug/L		109		70 - 122
Fluoranthene	ND	H F2 F1	39.1	42.7	H	ug/L		109		68 - 120
Fluorene	ND	H F2 F1	39.1	36.5	H	ug/L		93		53 - 120
Hexachlorobenzene	ND	H F2 F1	39.1	40.3	H	ug/L		103		61 - 120
Hexachlorobutadiene	ND	H F2 F1	39.1	26.3	H	ug/L		67		20 - 100
Hexachlorocyclopentadiene	ND	H F1	39.1	17.9	J H	ug/L		46		10 - 100
Hexachloroethane	ND	H F2 F1	39.1	25.6	H	ug/L		65		20 - 100
Indeno[1,2,3-cd]pyrene	ND	H F2 F1	39.1	43.6	H	ug/L		112		65 - 133
Isophorone	ND	H F2 F1	39.1	38.6	H	ug/L		99		57 - 110
Nitrobenzene	ND	H F2 F1	39.1	36.7	H	ug/L		94		53 - 110
N-Nitrosodi-n-propylamine	ND	H F2 F1	39.1	34.5	H	ug/L		88		58 - 110
N-Nitrosodiphenylamine	ND	H F2 F1	39.1	39.5	H	ug/L		101		66 - 110
Pentachlorophenol	ND	H F2 F1	78.2	54.8	H	ug/L		70		23 - 129
Phenol	ND	H F2 F1	39.1	15.5	H	ug/L		40		33 - 100
Pyrene	ND	H F1 F2 *	39.1	43.4	H F1	ug/L		111		70 - 110
2,4-Dimethylphenol	ND	H F2 F1	39.1	37.7	H	ug/L		96		51 - 110
Benzo[a]anthracene	ND	H F2 F1	39.1	42.2	H	ug/L		108		70 - 120
Phenanthrene	ND	H F2 F1	39.1	40.8	H	ug/L		104		65 - 120
3,3'-Dichlorobenzidine	ND	H F2 F1	39.1	41.1	H	ug/L		105		60 - 132

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	110		40 - 145
2-Fluorobiphenyl	104		34 - 110
2-Fluorophenol (Surr)	58		27 - 110
Nitrobenzene-d5 (Surr)	97		36 - 120
Phenol-d5 (Surr)	39		20 - 100
Terphenyl-d14 (Surr)	107		40 - 145

Lab Sample ID: 480-161261-2 MSD

Matrix: Water

Analysis Batch: 511690

Client Sample ID: SUPE-W -28C-101519

Prep Type: Total/NA

Prep Batch: 511565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier							
1,2,4-Trichlorobenzene	ND	H F2 F1	38.4	6.36	H F1 F2	ug/L		17		26 - 110	132	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-161261-2 MSD

Matrix: Water

Analysis Batch: 511690

Client Sample ID: SUPE-W -28C-101519

Prep Type: Total/NA

Prep Batch: 511565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,2-Dichlorobenzene	ND	H F2 F1	38.4	6.11	H F1 F2	ug/L		16	26 - 110	131	20	
1,3-Dichlorobenzene	ND	H F2 F1	38.4	5.97	H F1 F2	ug/L		16	22 - 110	132	20	
1,4-Dichlorobenzene	ND	H F2 F1	38.4	5.97	H F1 F2	ug/L		16	23 - 110	132	20	
1-Methylnaphthalene	ND	H F2 F1	38.4	7.12	H F1 F2	ug/L		19	38 - 110	131	20	
bis(chloroisopropyl) ether	ND	H F1 F2	38.4	6.81	H F1 F2	ug/L		18	38 - 110	146	20	
2,3,4,6-Tetrachlorophenol	ND	H F1	38.4	ND	H F1	ug/L		0	44 - 118	NC	20	
2,4,5-Trichlorophenol	ND	H F2 F1	38.4	6.72	J H F1 F2	ug/L		18	63 - 120	143	20	
2,4,6-Trichlorophenol	ND	H F2 F1	38.4	7.47	H F1 F2	ug/L		19	62 - 110	139	20	
2,4-Dichlorophenol	ND	H F2 F1	38.4	7.68	J H F1 F2	ug/L		20	62 - 110	136	20	
2,4-Dinitrophenol	ND	H F2 F1	76.8	8.06	J H F1 F2	ug/L		10	37 - 130	166	20	
2,4-Dinitrotoluene	ND	H F2 F1	38.4	8.55	H F1 F2	ug/L		22	63 - 122	133	20	
2,6-Dinitrotoluene	ND	H F2 F1	38.4	8.16	H F1 F2	ug/L		21	63 - 119	137	20	
3 & 4 Methylphenol	ND	H F2 F1	38.4	5.80	H F1 F2	ug/L		15	53 - 110	132	20	
2-Chloronaphthalene	ND	H F2 F1	38.4	7.51	H F1 F2	ug/L		20	39 - 110	133	20	
2-Chlorophenol	ND	H F2 F1	38.4	7.31	H F1 F2	ug/L		19	59 - 110	134	20	
2-Methylnaphthalene	ND	H F2 F1	38.4	7.01	H F1 F2	ug/L		18	34 - 110	132	20	
2-Methylphenol	ND	H F2 F1	38.4	6.54	H F1 F2	ug/L		17	53 - 110	134	20	
2-Nitroaniline	ND	H F2 F1	38.4	8.59	H F1 F2	ug/L		22	59 - 122	132	20	
2-Nitrophenol	ND	H F2 F1	38.4	7.67	J H F1 F2	ug/L		20	58 - 110	134	20	
3-Nitroaniline	ND	H F2 F1	38.4	9.28	J H F1 F2	ug/L		24	47 - 123	119	20	
4,6-Dinitro-2-methylphenol	ND	H F2 F1	76.8	13.8	J H F1 F2	ug/L		18	50 - 117	144	20	
4-Bromophenyl phenyl ether	ND	H F2 F1	38.4	8.35	H F1 F2	ug/L		22	58 - 120	132	20	
4-Chloro-3-methylphenol	ND	H F2 F1	38.4	7.45	J H F1 F2	ug/L		19	64 - 120	137	20	
4-Chloroaniline	ND	H F2 F1	38.4	12.9	H F1 F2	ug/L		34	35 - 128	102	20	
4-Chlorophenyl phenyl ether	ND	H F2 F1	38.4	7.82	H F1 F2	ug/L		20	47 - 112	129	20	
4-Nitroaniline	ND	H F2 F1	38.4	7.47	J H F1 F2	ug/L		19	52 - 147	122	20	
4-Nitrophenol	ND	H F1	76.8	ND	H F1	ug/L		0	20 - 110	NC	20	
Acenaphthene	ND	H F2 F1	38.4	7.80	H F1 F2	ug/L		20	46 - 110	133	20	
Acenaphthylene	ND	H F2 F1	38.4	7.95	H F1 F2	ug/L		21	47 - 110	132	20	
Anthracene	ND	H F2 F1	38.4	8.36	H F1 F2	ug/L		22	67 - 110	132	20	
Benzo[a]pyrene	ND	H F2 F1	38.4	8.27	H F1 F2	ug/L		22	70 - 120	135	20	
Benzo[b]fluoranthene	ND	H F2 F1	38.4	8.18	H F1 F2	ug/L		21	69 - 123	136	20	
Benzo[g,h,i]perylene	ND	H F2 F1	38.4	8.23	H F1 F2	ug/L		21	70 - 120	136	20	
Benzo[k]fluoranthene	ND	H F2 F1	38.4	8.57	H F1 F2	ug/L		22	70 - 120	130	20	
Benzoic acid	ND	H F1	76.8	ND	H F1	ug/L		0	10 - 100	NC	20	
Benzyl alcohol	ND	H F2 F1	38.4	9.59	J H F1 F2	ug/L		25	33 - 127	113	20	
Bis(2-chloroethoxy)methane	ND	H F2 F1	38.4	7.72	H F1 F2	ug/L		20	60 - 110	132	20	
Bis(2-chloroethyl)ether	ND	H F2 F1	38.4	7.64	H F1 F2	ug/L		20	49 - 110	131	20	
Bis(2-ethylhexyl) phthalate	ND	H F2 F1	38.4	8.33	J H F1 F2	ug/L		22	69 - 120	134	20	
Butyl benzyl phthalate	ND	H F2 F1	38.4	8.16	H F1 F2	ug/L		21	68 - 120	136	20	
Chrysene	ND	H F2 F1	38.4	8.17	H F1 F2	ug/L		21	68 - 120	136	20	
Dibenz(a,h)anthracene	ND	H F2 F1	38.4	8.38	H F1 F2	ug/L		22	70 - 127	136	20	
Dibenzofuran	ND	H F2 F1	38.4	7.97	H F1 F2	ug/L		21	51 - 110	133	20	
Diethyl phthalate	ND	H F2 F1	38.4	8.50	H F1 F2	ug/L		22	62 - 120	133	20	
Dimethyl phthalate	ND	H F2 F1	38.4	8.22	H F1 F2	ug/L		21	63 - 120	134	20	
Di-n-butyl phthalate	ND	H F2 F1	38.4	8.56	H F1 F2	ug/L		22	70 - 120	132	20	
Di-n-octyl phthalate	ND	H F2 F1	38.4	7.78	J H F1 F2	ug/L		20	70 - 122	138	20	
Fluoranthene	ND	H F2 F1	38.4	8.58	H F1 F2	ug/L		22	68 - 120	133	20	
Fluorene	ND	H F2 F1	38.4	7.99	H F1 F2	ug/L		21	53 - 120	128	20	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-161261-2 MSD

Client Sample ID: SUPE-W -28C-101519

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 511690

Prep Batch: 511565

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Hexachlorobenzene	ND	H F2 F1	38.4	8.23	H F1 F2	ug/L		21	61 - 120	132	20
Hexachlorobutadiene	ND	H F2 F1	38.4	5.53	H F1 F2	ug/L		14	20 - 100	131	20
Hexachlorocyclopentadiene	ND	H F1	38.4	ND	H F1	ug/L		0	10 - 100	NC	20
Hexachloroethane	ND	H F2 F1	38.4	5.66	H F1 F2	ug/L		15	20 - 100	127	20
Indeno[1,2,3-cd]pyrene	ND	H F2 F1	38.4	8.33	H F1 F2	ug/L		22	65 - 133	136	20
Isophorone	ND	H F2 F1	38.4	7.62	H F1 F2	ug/L		20	57 - 110	134	20
Nitrobenzene	ND	H F2 F1	38.4	7.80	H F1 F2	ug/L		20	53 - 110	130	20
N-Nitrosodi-n-propylamine	ND	H F2 F1	38.4	7.52	H F1 F2	ug/L		20	58 - 110	128	20
N-Nitrosodiphenylamine	ND	H F2 F1	38.4	8.49	H F1 F2	ug/L		22	66 - 110	129	20
Pentachlorophenol	ND	H F2 F1	76.8	9.33	J H F1 F2	ug/L		12	23 - 129	142	20
Phenol	ND	H F2 F1	38.4	2.98	J H F1 F2	ug/L		8	33 - 100	136	20
Pyrene	ND	H F1 F2 *	38.4	8.49	H F1 F2	ug/L		22	70 - 110	134	20
2,4-Dimethylphenol	ND	H F2 F1	38.4	7.64	J H F1 F2	ug/L		20	51 - 110	133	20
Benzo[a]anthracene	ND	H F2 F1	38.4	8.09	H F1 F2	ug/L		21	70 - 120	136	20
Phenanthrene	ND	H F2 F1	38.4	8.29	H F1 F2	ug/L		22	65 - 120	132	20
3,3'-Dichlorobenzidine	ND	H F2 F1	38.4	7.80	H F1 F2	ug/L		20	60 - 132	136	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	15	X	40 - 145
2-Fluorobiphenyl	21	X	34 - 110
2-Fluorophenol (Surr)	13	X	27 - 110
Nitrobenzene-d5 (Surr)	20	X	36 - 120
Phenol-d5 (Surr)	7	X	20 - 100
Terphenyl-d14 (Surr)	23	X	40 - 145

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-499539/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 500726

Prep Batch: 499539

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1.0	0.34	ug/L		10/22/19 16:11	10/28/19 17:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	56		24 - 146	10/22/19 16:11	10/28/19 17:30	1
2-Fluorobiphenyl	87		37 - 120	10/22/19 16:11	10/28/19 17:30	1
2-Fluorophenol (Surr)	47		10 - 120	10/22/19 16:11	10/28/19 17:30	1
Nitrobenzene-d5 (Surr)	80		26 - 120	10/22/19 16:11	10/28/19 17:30	1
Phenol-d5 (Surr)	34		11 - 120	10/22/19 16:11	10/28/19 17:30	1
p-Terphenyl-d14	100		64 - 127	10/22/19 16:11	10/28/19 17:30	1

Lab Sample ID: LCS 480-499539/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 500726

Prep Batch: 499539

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Pentachlorophenol	16.0	13.8		ug/L		86		10 - 131

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 480-499539/2-A
Matrix: Water
Analysis Batch: 500726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499539

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	116		24 - 146
2-Fluorobiphenyl	101		37 - 120
2-Fluorophenol (Surr)	56		10 - 120
Nitrobenzene-d5 (Surr)	102		26 - 120
Phenol-d5 (Surr)	40		11 - 120
p-Terphenyl-d14	117		64 - 127

Lab Sample ID: 480-161261-2 MS
Matrix: Water
Analysis Batch: 500726

Client Sample ID: SUPE-W -28C-101519
Prep Type: Total/NA
Prep Batch: 499539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	ND		16.0	14.6		ug/L		91	23 - 149
Surrogate	MS %Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	121		24 - 146						
2-Fluorobiphenyl	105		37 - 120						
2-Fluorophenol (Surr)	56		10 - 120						
Nitrobenzene-d5 (Surr)	106		26 - 120						
Phenol-d5 (Surr)	39		11 - 120						
p-Terphenyl-d14	113		64 - 127						

Lab Sample ID: 480-161261-2 MSD
Matrix: Water
Analysis Batch: 500726

Client Sample ID: SUPE-W -28C-101519
Prep Type: Total/NA
Prep Batch: 499539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Pentachlorophenol	ND		16.0	14.8		ug/L		92	23 - 149	1	37
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
2,4,6-Tribromophenol (Surr)	121		24 - 146								
2-Fluorobiphenyl	103		37 - 120								
2-Fluorophenol (Surr)	56		10 - 120								
Nitrobenzene-d5 (Surr)	106		26 - 120								
Phenol-d5 (Surr)	39		11 - 120								
p-Terphenyl-d14	113		64 - 127								

QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

GC/MS VOA

Analysis Batch: 499719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161261-1	SUPE-TB -01-101519	Total/NA	Water	8260C	
480-161261-2	SUPE-W -28C-101519	Total/NA	Water	8260C	
480-161261-3	SUPE-EB -01-101519	Total/NA	Water	8260C	
MB 480-499719/7	Method Blank	Total/NA	Water	8260C	
LCS 480-499719/5	Lab Control Sample	Total/NA	Water	8260C	
480-161261-2 MS	SUPE-W -28C-101519	Total/NA	Water	8260C	
480-161261-2 MSD	SUPE-W -28C-101519	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 499539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161261-2	SUPE-W -28C-101519	Total/NA	Water	3510C	
480-161261-3	SUPE-EB -01-101519	Total/NA	Water	3510C	
MB 480-499539/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-499539/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-161261-2 MS	SUPE-W -28C-101519	Total/NA	Water	3510C	
480-161261-2 MSD	SUPE-W -28C-101519	Total/NA	Water	3510C	

Analysis Batch: 500726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161261-2	SUPE-W -28C-101519	Total/NA	Water	8270D LL	499539
480-161261-3	SUPE-EB -01-101519	Total/NA	Water	8270D LL	499539
MB 480-499539/1-A	Method Blank	Total/NA	Water	8270D LL	499539
LCS 480-499539/2-A	Lab Control Sample	Total/NA	Water	8270D LL	499539
480-161261-2 MS	SUPE-W -28C-101519	Total/NA	Water	8270D LL	499539
480-161261-2 MSD	SUPE-W -28C-101519	Total/NA	Water	8270D LL	499539

Prep Batch: 511565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161261-2	SUPE-W -28C-101519	Total/NA	Water	3510C	
480-161261-3	SUPE-EB -01-101519	Total/NA	Water	3510C	
MB 500-511565/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-511565/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-161261-2 MS	SUPE-W -28C-101519	Total/NA	Water	3510C	
480-161261-2 MSD	SUPE-W -28C-101519	Total/NA	Water	3510C	

Analysis Batch: 511690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-161261-2	SUPE-W -28C-101519	Total/NA	Water	8270D	511565
480-161261-3	SUPE-EB -01-101519	Total/NA	Water	8270D	511565
MB 500-511565/1-A	Method Blank	Total/NA	Water	8270D	511565
LCS 500-511565/2-A	Lab Control Sample	Total/NA	Water	8270D	511565
480-161261-2 MS	SUPE-W -28C-101519	Total/NA	Water	8270D	511565
480-161261-2 MSD	SUPE-W -28C-101519	Total/NA	Water	8270D	511565

Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Client Sample ID: SUPE-TB -01-101519

Lab Sample ID: 480-161261-1

Date Collected: 10/15/19 00:00

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499719	10/24/19 05:02	BTP	TAL BUF

Client Sample ID: SUPE-W -28C-101519

Lab Sample ID: 480-161261-2

Date Collected: 10/15/19 16:48

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499719	10/24/19 05:26	BTP	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:07	DAK	TAL CHI
Total/NA	Analysis	8270D		1	511690	10/24/19 15:19	GWB	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 19:24	PJQ	TAL BUF

Client Sample ID: SUPE-EB -01-101519

Lab Sample ID: 480-161261-3

Date Collected: 10/15/19 17:41

Matrix: Water

Date Received: 10/17/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	499719	10/24/19 05:51	BTP	TAL BUF
Total/NA	Prep	3510C			511565	10/23/19 15:08	DAK	TAL CHI
Total/NA	Analysis	8270D		1	511690	10/24/19 15:43	GWB	TAL CHI
Total/NA	Prep	3510C			499539	10/22/19 16:11	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	500726	10/28/19 23:41	PJQ	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	998310390	08-31-20

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

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



Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-161261-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-161261-1	SUPE-TB -01-101519	Water	10/15/19 00:00	10/17/19 10:00	
480-161261-2	SUPE-W -28C-101519	Water	10/15/19 16:48	10/17/19 10:00	
480-161261-3	SUPE-EB -01-101519	Water	10/15/19 17:41	10/17/19 10:00	

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**CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS
REQUEST FORM**

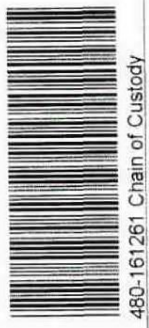
REF.# 501196

501196

Project Name: Superior 2019 2SA Sampling Company: Field & Technical Services Client: Beazer East, Inc.
 Project Number: OM-0556-19 Address: 200 Third Avenue Contact: (724) 858-5953
 Laboratory: TABUF Carnegie, PA 15106 btrask.2006@f-ts.com
 Shipment Method: FEDEX (412) 279-3363

Program: Superior 2019 2SA Sampling_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					8260B_VOA+naphtha	8270C_SVOC (less naphtha)		
10/15/2019	0000	GW	SUPE-TB-01-101519		2	0		
10/15/2019	1648	GW	SUPE-W-28C-101519		2	3		
10/15/2019	1648	GW	SUPE-W-28C/MS/MSD-101519		4	6		
10/15/2019	1741	GW	SUPE-EB-01-101519		2	3		



Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	<input type="checkbox"/> Rush
Printed Name: Ben Trask	Printed Name:	Printed Name:	Printed Name:	<input checked="" type="checkbox"/> Standard
Firm: FTS	Firm:	Firm:	Firm:	
Date/Time: 10/15/2019 1751	Date/Time:	Date/Time:	Date/Time: 10/17/19 1000	

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Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161261-1

Login Number: 161261

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Manhardt, Kara M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	FTS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161261-1

Login Number: 161261

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

List Creation: 10/23/19 09:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-161261-1

Login Number: 161261

List Number: 3

Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

List Creation: 10/31/19 08:02 AM

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



APPENDIX F

ASCII DATA

(C.D.)

