



## Field & Technical Services

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

November 18, 2022

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

**RE: Second Semi-Annual 2022 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 2022 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 2022 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 3, 2022 through October 6, 2022. The sampling effort was led by Ms. Marie Ferrick, 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), and Enforcement Standard (ES) exceedances (Table C-1 of Appendix C);
- Summary of analytical data (Table C-2 of Appendix C);
- Data Evaluation Summary (Appendix D);
- An electronic version of the laboratory analytical data, including trip blank, equipment blank, and field duplicate results (Appendix E); and
- An electronic version of the ASCII formatted data (Appendix F).

## SUMMARY OF ANALYTICAL RESULTS

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

Parameter	Regulatory Standard (ug/L)	Wells
<b>ES Exceedance</b>		
Benzene	5	W-10AR2, W-30A
Benzo(b)fluoranthene	0.2	W-10AR2
bis(2-Ethylhexyl)phthalate*	6	W-04AR2
Chrysene	0.2	W-10AR2
<b>PAL Exceedance</b>		
Benzene	0.5	W-10AR2, W-30A
Benzo(a)pyrene	0.02	W-04AR2, W-10AR2
Benzo(b)fluoranthene	0.02	W-04AR2, W-10AR2
bis(2-Ethylhexyl)phthalate*	0.6	W-04AR2
Chrysene	0.02	W-04AR2, W-10AR2
Naphthalene	10	W-30A
Pentachlorophenol	0.1	W-30C

\* bis(2-Ethylhexyl)phthalate was detected above the QL in the equipment blank and the result in sample W-04AR2 was qualified "J+".

Based on these results, four wells (W-04AR2, W-10AR2, W-30A, and W-30C) 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 2022 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the second semi-annual 2022 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 2022 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 Patarcity 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. Patarcity, Beazer (electronic copy only)  
B. Tatsch, Koppers (electronic copy only)  
D. Bessingpas, ARCADIS (.pdf transmittal)  
D. Coenen, 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 - WAWS  
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 3-October 6, 2022

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

October 2022

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.

  
Signature

November 18, 2022  
Date

**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 \_\_\_\_\_

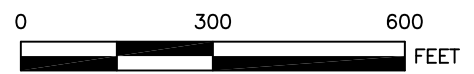
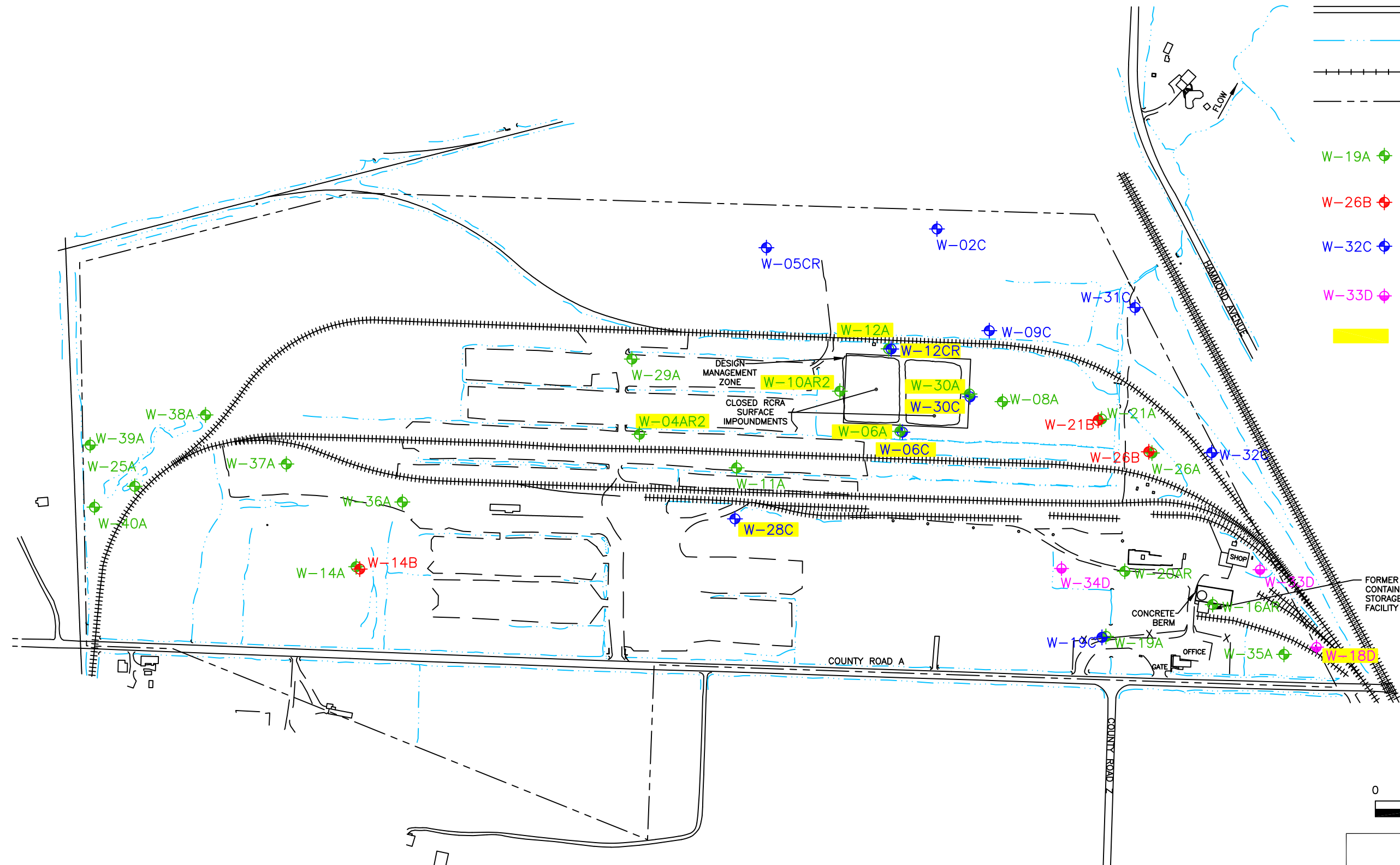
**APPENDIX B**  
**WELL LOCATION MAP**





### 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

DRWN: KLC	DATE: 04/27/22
CHKD: AMG	DATE: 04/27/22
APPD: JSZ	DATE: 05/16/22
SCALE: AS SHOWN	
ISSUE DATE:	



FIELD & TECHNICAL SERVICES, LLC  
200 THIRD AVENUE  
CARNEGIE, PA 15106

FORMER KOPPERS INC. FACILITY  
SUPERIOR, WISCONSIN

WELL LOCATIONS

PROJECT NO: 0M055622  
DRAWING NUMBER  
FIGURE B-1

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

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REV #	DATE	DESCRIPTION	APPD



# APPENDIX C

## TABLES



**Table C-1**  
**Summary of Detected Constituents**  
**Second Semi-Annual 2022 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
<b>8270D LL / 8270E LL</b>				
W-10AR2	1-Methylnaphthalene	20	NA	NA
W-30A	1-Methylnaphthalene	15	NA	NA
W-06C	2-Chloronaphthalene	0.077 J	NA	NA
W-06C	2-Methylnaphthalene	0.067 J	NA	NA
W-06C	Acenaphthene	0.073 J	NA	NA
W-10AR2	Acenaphthene	62	NA	NA
W-18D	Acenaphthene	0.073 J	NA	NA
W-30A	Acenaphthene	39	NA	NA
W-10AR2	Acenaphthylene	1	NA	NA
W-30A	Acenaphthylene	0.56	NA	NA
W-04AR2	Anthracene	1.3	600	3000
W-10AR2	Anthracene	0.67	600	3000
W-12A	Anthracene	0.1 J	600	3000
W-12CR	Anthracene	0.064 J	600	3000
W-30A	Anthracene	0.71	600	3000
W-30C	Anthracene	0.2	600	3000
W-04AR2	Benzo(a)anthracene	0.091 J	NA	NA
W-10AR2	Benzo(a)anthracene	0.16 J	NA	NA
W-04AR2	Benzo(a)pyrene	0.061 J	0.02	0.2
W-10AR2	Benzo(a)pyrene	0.062 J	0.02	0.2
W-04AR2	Benzo(b)fluoranthene	0.2	0.02	0.2
W-10AR2	Benzo(b)fluoranthene	0.25	0.02	0.2
W-04AR2	Benzoic acid	1.4 J	NA	NA
W-06C	Benzoic acid	1.8 J	NA	NA
W-18D	Benzoic acid	1.7 J	NA	NA
W-30A	Benzoic acid	1.7 J	NA	NA
W-04AR2	Benzyl alcohol	0.57 J	NA	NA
W-06C	Benzyl alcohol	1.5	NA	NA
W-28C DUP	Benzyl alcohol	0.39 J	NA	NA
W-04AR2	bis(2-Ethylhexyl)phthalate	15 J+	0.6	6
W-04AR2	Butyl benzyl phthalate	1.3 J+	NA	NA
W-06C	Butyl benzyl phthalate	1.3	NA	NA
W-04AR2	Chrysene	0.16 J	0.02	0.2
W-10AR2	Chrysene	0.22	0.02	0.2
W-10AR2	Dibenzofuran	17	NA	NA
W-30A	Dibenzofuran	17	NA	NA
W-04AR2	Diethyl phthalate	0.61 J	NA	NA
W-04AR2	Di-n-butyl phthalate	2 J+	100	1000
W-06C	Di-n-butyl phthalate	2.1 J+	100	1000
W-10AR2	Di-n-butyl phthalate	1.2 J+	100	1000
W-12A	Di-n-butyl phthalate	1.7 J+	100	1000

**Table C-1**  
**Summary of Detected Constituents**  
**Second Semi-Annual 2022 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
W-12CR	Di-n-butyl phthalate	1.4 J+	100	1000
W-18D	Di-n-butyl phthalate	1.1 J+	100	1000
W-30A	Di-n-butyl phthalate	.1.2 J+	100	1000
W-30C	Di-n-butyl phthalate	1.7 J+	100	1000
W-04AR2	Fluoranthene	0.24 J+	80	400
W-06C	Fluoranthene	0.066 J	80	400
W-10AR2	Fluoranthene	2.1	80	400
W-30A	Fluoranthene	1.3	80	400
W-10AR2	Fluorene	17	80	400
W-30A	Fluorene	14	80	400
W-30C	Pentachlorophenol	0.46 J	0.1	1
W-04AR2	Phenanthrene	0.36 J+	NA	NA
W-06A	Phenanthrene	0.26 J+	NA	NA
W-06C	Phenanthrene	0.34 J+	NA	NA
W-10AR2	Phenanthrene	0.58 J+	NA	NA
W-18D	Phenanthrene	0.27 J+	NA	NA
W-30A	Phenanthrene	5.4 J+	NA	NA
W-10AR2	Phenol	2	400	2000
W-30A	Phenol	1 J	400	2000
W-06C	Pyrene	0.056 J	50	250
W-10AR2	Pyrene	1.4	50	250
W-30A	Pyrene	0.9	50	250
<b>8260C</b>				
W-10AR2	1,2,4-Trimethylbenzene	10	96*	480*
W-30A	1,2,4-Trimethylbenzene	6.4	96*	480*
W-10AR2	Benzene	19	0.5	5
W-30A	Benzene	13	0.5	5
W-10AR2	Ethylbenzene	41	140	700
W-30A	Ethylbenzene	27	140	700
W-10AR2	Naphthalene	3.6	10	100
W-30A	Naphthalene	19	10	100
W-10AR2	Toluene	2.4	160	800
W-30A	Toluene	2.6	160	800
W-10AR2	Xylene, Meta & Para	3.3	400**	2000**
W-30A	Xylene, Meta & Para	6.1	400**	2000**
W-10AR2	Xylene, Ortho	18	400**	2000**
W-30A	Xylene, Ortho	6.8	400**	2000**

**Notes:**

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

PAL - Preventative Action Limit

ES - Enforcement Standard

NA - Not available

J - Estimated

J+ - Estimated biased high

\* - Total trimethylbenzene standard

\*\* - Total xylene standard

**Table C-2**  
**Analytical Summary - Second Semi-Annual 2022 Groundwater Data**  
**Second Semi-Annual 2022 Sampling Event**  
**Superior Facility**  
**Superior, Wisconsin**

ANALYTE NAME	UNITS	W-04AR2 10/5/2022	W-06A 10/5/2022	W-06C 10/5/2022	W-10AR2 10/6/2022	W-12A 10/5/2022	W-12CR 10/6/2022	W-18D 10/6/2022	W-28C 10/5/2022	W-28C-DUP 10/5/2022	W-30A 10/6/2022	W-30C 10/4/2022	Equipment Blank 10/4/2022	Equipment Blank 10/5/2022	Equipment Blank 10/6/2022	Trip Blank 10/5/2022	Trip Blank 10/6/2022
<b>8260C</b>																	
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
1,2,4-TRIMETHYLBENZENE	UG/L	0.75 U	0.75 U	0.75 U	<b>10</b>	0.75 U	0.75 U	NA	0.75 U	0.75 U	<b>6.4</b>	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
BENZENE	UG/L	0.41 U	0.41 U	0.41 U	<b>19</b>	0.41 U	0.41 U	NA	0.41 U	0.41 U	<b>13</b>	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
ETHYLBENZENE	UG/L	0.74 U	0.74 U	0.74 U	<b>41</b>	0.74 U	0.74 U	NA	0.74 U	0.74 U	<b>27</b>	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
NAPHTHALENE	UG/L	0.43 U	0.43 U	0.43 U	<b>3.6</b>	0.43 U	0.43 U	NA	0.43 U	0.43 U	<b>19</b>	0.43 U	0.43 U	0.86 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
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
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
TOLUENE	UG/L	0.51 U	0.51 U	0.51 U	<b>2.4</b>	0.51 U	0.51 U	NA	0.51 U	0.51 U	<b>2.6</b>	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	<b>3.3</b>	0.66 U	0.66 U	NA	0.66 U	0.66 U	<b>6.1</b>	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	<b>18</b>	0.76 U	0.76 U	NA	0.76 U	0.76 U	<b>6.8</b>	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
<b>8270D LL/8270E LL</b>																	
1,2,4-TRICHLOROBENZENE	UG/L	0.14 U	0.14 U	0.14 U	0.15 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U	NA	NA
1,2-DICHLOROBENZENE	UG/L	0.099 U	0.1 U	0.099 U	0.11 U	0.1 U	0.1 U	0.095 U	0.1 U	0.099 U	0.1 U	0.095 U	0.099 U	0.1 U	0.1 U	NA	NA
1,3-DICHLOROBENZENE	UG/L	0.1 U	0.11 U	0.1 U	0.11 U	0.11 U	0.11 U	0.099 U	0.11 U	0.1 U	0.11 U	0.099 U	0.1 U	0.11 U	0.11 U	NA	NA
1,4-DICHLOROBENZENE	UG/L	0.064 U	0.066 U	0.064 U	0.069 U	0.066 U	0.066 U	0.061 U	0.066 U	0.064 U	0.066 U	0.061 U	0.064 U	0.066 U	0.066 U	NA	NA
1-METHYLNAPHTHALENE	UG/L	0.058 U	0.061 U	0.058 U	<b>20</b>	0.061 U	0.061 U	0.056 U	0.061 U	0.058 U	<b>15</b>	0.056 U	0.058 U	0.081 J	0.061 U	NA	NA
2,3,4,6-TETRACHLOROPHENOL	UG/L	0.34 U	0.35 U	0.34 U	0.37 U	0.35 U	0.35 U	0.33 U	0.35 U	0.34 U	0.35 U	0.33 U	0.34 U	0.35 U	0.35 U	NA	NA
2,3,5,6-TETRACHLOROPHENOL	UG/L	0.53 U	0.55 U	0.53 U	0.58 U	0.55 U	0.55 U	0.51 U	0.55 U	0.53 U	0.55 U	0.51 U	0.53 U	0.55 U	0.55 U	NA	NA
2,4,5-TRICHLOROPHENOL	UG/L	0.26 U	0.27 U	0.26 U	0.29 U	0.27 U	0.27 U	0.25 U	0.27 U	0.26 U	0.27 U	0.25 U	0.26 U	0.27 U	0.27 U	NA	NA
2,4,6-TRICHLOROPHENOL	UG/L	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.24 U	0.22 U	0.24 U	0.23 U	0.24 U	0.22 U	0.23 U	0.24 U	0.24 U	NA	NA
2,4-DICHLOROPHENOL	UG/L	0.053 U	0.055 U	0.053 U	0.058 U	0.055 U	0.055 U	0.051 U	0.055 U	0.053 U	0.055 U	0.051 U	0.053 U	0.055 U	0.055 U	NA	NA
2,4-DIMETHYLPHENOL	UG/L	0.17 U	0.18 U	0.17 U	0.19 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.17 U	0.18 U	0.18 U	NA	NA
2,4-DINITROPHENOL	UG/L	1.6 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U	1.5 U	1.7 U	1.6 U	1.7 U	1.5 U	1.6 U	1.7 U	1.7 U	NA	NA
2,4-DINITROTOLUENE	UG/L	0.37 U	0.38 U	0.37 U	0.4 U	0.38 U	0.38 U	0.35 U	0.38 U	0.37 U	0.38 U	0.35 U	0.37 U	0.38 U	0.38 U	NA	NA
2,6-DINITROTOLUENE	UG/L	0.18 U	0.19 U	0.18 U	0.2 U	0.19 U	0.19 U	0.17 U	0.19 U	0.18 U	0.19 U	0.17 U	0.18 U	0.19 U	0.19 U	NA	NA
2-CHLORONAPHTHALENE	UG/L	0.061 U	0.064 U	<b>0.077 J</b>	0.067 U	0.064 U	0.064 U	0.059 U	0.064 U	0.061 U	0.064 U	0.059 U	0.061 U	0.064 U	0.064 U	NA	NA
2-CHLOROPHENOL	UG/L	0.13 U	0.14 U	0.13 U	0.15 U	0.14 U	0.14 U	0.13 U	0.14 U	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U	0.14 U	NA	NA
2-METHYLNAPHTHALENE	UG/L	0.065 U	0.067 U	<b>0.067 J</b>	0.07 U	0.067 U	0.067 U	0.062 U	0.067 U	0.065 U	0.067 U	0.062 U	0.065 U	0.17 J	0.067 U	NA	NA
2-METHYLPHENOL	UG/L	0.31 U	0.33 U	0.31 U	0.34 U	0.33 U	0.33 U	0.3 U	0.33 U	0.31 U	0.33 U	0.3 U	0.31 U	0.33 U	0.33 U	NA	NA
2-NITROANILINE	UG/L	0.57 U	0.6 U	0.57 U	0.62 U	0.6 U	0.6 U	0.55 U	0.6 U	0.57 U	0.6 U	0.55 U	0.57 U	0.6 U	0.6 U	NA	NA
2-NITROPHENOL	UG/L	0.2 U	0.21 U	0.2 U	0.22 U	0.21 U	0.21 U	0.19 U	0.21 U	0.2 U	0.21 U	0.19 U	0.2 U	0.21 U	0.21 U	NA	NA
3,3'-DICHLOROBENZIDINE	UG/L	0.61 U	0.63 U	0.61 U	0.66 U	0.63 U	0.63 U	0.58 U	0.63 U	0.61 U	0.63 U	0.58 U	0.61 U	0.63 U	0.63 U	NA	NA
3-NITROANILINE	UG/L	0.46 U	0.48 U	0.46 U	0.5 U	0.48 U	0.48 U	0.44 U	0.48 U	0.46 U	0.48 U	0.44 U	0.46 U	0.48 U	0.48 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	UG/L	1.5 U	1.6 U	1.5 U	1.7 U	1.6 U	1.6 U	1.5 U	1.6 U	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.6 U	NA	NA
4-BROMOPHENYL PHENYLETHER	UG/L	0.33 U	0.35 U	0.33 U	0.36 U	0.35 U	0.35 U	0.32 U	0.35 U	0.33 U	0.35 U	0.32 U	0.33 U	0.35 U	0.35 U	NA	NA



**APPENDIX D**  
**DATA EVALUATION SUMMARY**



## **FTS, LLC**

**DATE: October 26, 2022**

**FROM: Kendra Chintella**

**SUBJECT: Superior Groundwater**

**SAMPLE DELIVERY GROUP (SDG): 180-145689-1**

**SAMPLES: SUPE-W-06A-100522, SUPE-W-06C-100522, SUPE-W-12A-100522, SUPE-W-30C-100422, SUPE-EB1-100422**

**ANALYSES: Method 8260C (VOCs), 8270E LL (SVOCs), 8270D LL (Pentachlorophenol)**

**LABORATORY: Eurofins Laboratories, Buffalo, Pittsburgh**

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: Di-n-butyl phthalate was detected above the QL in the equipment blank and the result in sample W-06A was qualified as not detected at the QL. The di-n-butyl phthalate results in samples W-06C, W-12A, and W-30C were qualified "J+". Phenanthrene was detected below the QL in the equipment blank and the results in samples W-12A and W-30C were qualified not detected at the QL. The phenanthrene results in samples W-06A and W-06C were qualified "J+".
- Surrogate Recoveries  
Noncompliance: None
- Matrix Spike/Matrix Spike Duplicate  
Noncompliance: The MS/MSD recoveries of several SVOCs were outside of the recovery limits. No action was taken on this basis.
- Laboratory Control Sample  
Noncompliance: The LCS/LCSD recoveries of 2-nitrophenol, bis(2-ethylhexyl)phthalate, butyl benzyl phthalate, di-n-octyl phthalate, and hexachlorocyclopentadiene were above the recovery limits. No action was taken on this basis.

# FTS, LLC

**DATE:** October 26, 2022

**FROM:** Kendra Chintella

**SUBJECT:** Superior Groundwater

**SAMPLE DELIVERY GROUP (SDG):** 180-145919-1

**SAMPLES:** SUPE-W-12CR-100622, SUPE-W-30A-100622, SUPE-EB3-100622, SUPE-W-10AR2-100622, SUPE-W-18D-100622, TRIP BLANK

**ANALYSES:** Method 8260C (VOCs), 8270E LL (SVOCs), 8270D LL (Pentachlorophenol)

**LABORATORY:** Eurofins Laboratories, Buffalo, Pittsburgh

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: Butyl benzyl phthalate was detected below the QL in the equipment blank and the results in samples W-12CR, W-30A, W-10AR2, and W-18D were qualified as not detected at the QL. Di-n-butyl phthalate was detected below the QL in the equipment blank and the results in samples W-12CR, W-30A, W-10AR2, and W-18D were qualified "J+". Phenanthrene was detected below the QL in the equipment blank and the result in sample W-12CR was qualified not detected at the QL. The phenanthrene results in samples W-30A, W-10AR2, and W-18D were qualified "J+".
- Surrogate Recoveries  
Noncompliance: None
- Matrix Spike/Matrix Spike Duplicate  
Noncompliance: None
- Laboratory Control Sample  
Noncompliance: None



# FTS, LLC

**DATE:** October 26, 2022

**FROM:** Kendra Chintella

**SUBJECT:** Superior Groundwater

**SAMPLE DELIVERY GROUP (SDG):** 180-145920-1

**SAMPLES:** SUPE-M-099A-100522 (W-28C), SUPE-W-28C-100522, SUPE-W-04AR2-100522, SUPE-EB2-100522, TRIP BLANK

**ANALYSES:** Method 8260C (VOCs), 8270E LL (SVOCs), 8270D LL (Pentachlorophenol)

**LABORATORY:** Eurofins Laboratories, Buffalo, Pittsburgh

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: bis(2-Ethylhexyl)phthalate was detected above the QL in the equipment blank and the result in sample W-04AR2 was qualified "J+". Butyl benzyl phthalate was detected above the QL in the equipment blank and the result in samples W-28C was qualified as not detected at the QL. The butyl benzyl phthalate result in sample W-04AR2 was qualified "J+". Di-n-butyl phthalate was detected above the QL in the equipment blank and the results in samples M-099A and W-28C were qualified not detected. The di-n-butyl phthalate result in sample W-04AR2 was qualified "J+". Fluoranthrene was detected below the QL in the equipment blank and the result in sample M-099A was as not detected at the QL. The fluoranthrene result in sample W-04AR2 was qualified "J+". Phenanthrene was detected above the QL in the equipment blank and the result in sample M-099A was qualified not detected at the QL. The phenanthrene result in sample W-28C was qualified not detected. The phenanthrene result in sample W-04AR2 was qualified "J+". Pyrene was detected below the QL in the equipment blank and the results in samples M-099A and W-04AR2 were qualified as not detected at the QL. Naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, and fluorene were detected in the equipment blank and no data qualification was necessary as the sample results were not detected.
- Field Duplicate Precision  
Noncompliance: See attached page for details.
- Surrogate Recoveries  
Noncompliance: None
- Laboratory Control Sample  
Noncompliance: None

**Field Duplicate Precision:**

FIELD DUPLICATE PRECISION					
ANALYTE	W-28C	QUAL	M-099A	QUAL	RPD
Benzyl alcohol	0.18	U	0.39	J	NC
Butyl benzyl phthalate	0.53	J	0.48	U	NC
Di-n-butyl phthalate	1.4		1.3		7.41
Fluoranthene	0.065	U	0.098	J	NC
Phenanthrene	0.23		0.12	J	62.86*
Pyrene	0.059	U	0.062	J	NC

NC – not calculated due to nondetect result

\* - RPD is greater than 30%, associated samples are qualified as estimated, "J," due to laboratory or field sampling imprecision

**APPENDIX E**  
**LABORATORY ANALYTICAL DATA**



## ANALYTICAL REPORT

Eurofins Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-145689-1

Client Project/Site: Superior, WI Semiannual Groundwater

For:

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

Attn: Ms. Angie Gatchie



Authorized for release by:  
10/20/2022 4:09:24 PM

Shali Brown, Project Manager II  
(615)301-5031  
[Shali.Brown@et.eurofinsus.com](mailto:Shali.Brown@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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.

PA Lab ID: 02-00416



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# Case Narrative

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

Job ID: 180-145689-1

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## Job ID: 180-145689-1

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### Laboratory: Eurofins Pittsburgh

#### Narrative

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#### Job Narrative 180-145689-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/6/2022 9:01 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-644817 recovered outside acceptance criteria, low biased, for 1,1,1-Trichloroethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

#### GC/MS Semi VOA

Method 8270E LL: The continuing calibration verification (CCV) associated with batch 180-414968 recovered above the upper control limit for Bis(2-ethylhexyl) phthalate and Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: CCVIS 180-414968/3.

Method 8270E LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-414851 and analytical batch 180-415129 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270E LL: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for preparation batch 180-414522 and analytical batch 180-415129 recovered outside control limits for the following analytes: 2-Nitrophenol, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Di-n-octyl phthalate and Hexachlorocyclopentadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E LL: The continuing calibration verification (CCV) associated with batch 180-415201 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: CCVIS 180-415201/3.

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

#### Organic Prep

Method 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: SUPE-W-06C-100522 and SUPE-W-12A-100522.

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

# Definitions/Glossary

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

Job ID: 180-145689-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
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.
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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Accreditation/Certification Summary

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

Job ID: 180-145689-1

## Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998027800	08-31-23

## Laboratory: Eurofins Buffalo

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

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

- 1
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- 3
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- 9
- 10
- 11
- 12
- 13



# Sample Summary

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

Job ID: 180-145689-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-145689-1	SUPE-W-06A-100522	Water	10/05/22 09:05	10/06/22 09:01
180-145689-2	SUPE-W-06C-100522	Water	10/05/22 10:59	10/06/22 09:01
180-145689-3	SUPE-W-12A-100522	Water	10/05/22 13:00	10/06/22 09:01
180-145689-4	SUPE-W-30C-100422	Water	10/04/22 18:32	10/06/22 09:01
180-145689-5	SUPE-EB1-100422	Water	10/04/22 19:10	10/06/22 09:01

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# Method Summary

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

Job ID: 180-145689-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET BUF
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET PIT
5030C	Purge and Trap	SW846	EET BUF

#### Protocol References:

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

#### Laboratory References:

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

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-06A-100522**

**Lab Sample ID: 180-145689-1**

Date Collected: 10/05/22 09:05

Matrix: Water

Date Received: 10/06/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645602	10/15/22 13:40	CR	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			980 mL	1 mL	644801	10/11/22 08:43	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/13/22 19:28	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415201	10/15/22 13:05	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-W-06C-100522**

**Lab Sample ID: 180-145689-2**

Date Collected: 10/05/22 10:59

Matrix: Water

Date Received: 10/06/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645602	10/15/22 14:02	CR	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			890 mL	1 mL	644801	10/11/22 08:43	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/13/22 19:00	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			240 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415129	10/14/22 21:29	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-W-12A-100522**

**Lab Sample ID: 180-145689-3**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/06/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645602	10/15/22 14:26	CR	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			860 mL	1 mL	644801	10/11/22 08:43	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/13/22 19:56	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415129	10/14/22 22:33	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-W-30C-100422**

**Lab Sample ID: 180-145689-4**

Date Collected: 10/04/22 18:32

Matrix: Water

Date Received: 10/06/22 09:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	644817	10/11/22 15:25	CB	EET BUF
Instrument ID: HP5975T										

# Lab Chronicle

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-30C-100422**

**Lab Sample ID: 180-145689-4**

**Date Collected: 10/04/22 18:32**

**Matrix: Water**

**Date Received: 10/06/22 09:01**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			990 mL	1 mL	644801	10/11/22 08:43	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/13/22 20:23	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			250 mL	0.25 mL	414522	10/08/22 17:39	VJC	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	414968	10/13/22 23:44	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-EB1-100422**

**Lab Sample ID: 180-145689-5**

**Date Collected: 10/04/22 19:10**

**Matrix: Water**

**Date Received: 10/06/22 09:01**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	644817	10/11/22 15:47	CB	EET BUF
Instrument ID: HP5975T										
Total/NA	Prep	3510C			990 mL	1 mL	644801	10/11/22 08:43	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/13/22 20:51	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			240 mL	0.25 mL	414522	10/08/22 17:39	VJC	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	414968	10/14/22 00:05	VVP	EET PIT
Instrument ID: CH733										

**Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600  
 EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

**Analyst References:**

Lab: EET BUF  
 Batch Type: Prep  
     JMP = Jacob Pollock  
 Batch Type: Analysis  
     CB = Christa Baker  
     CR = Carly Repka  
     RJS = Robert Schick  
 Lab: EET PIT  
 Batch Type: Prep  
     BJT = Bill Trout  
     VJC = Vincent Cervone  
 Batch Type: Analysis  
     VVP = Vincent Piccolino

# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-06A-100522**

**Lab Sample ID: 180-145689-1**

Date Collected: 10/05/22 09:05

Matrix: Water

Date Received: 10/06/22 09:01

## Method: SW846 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			10/15/22 13:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 13:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 13:40	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 13:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 13:40	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 13:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 13:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 13:40	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 13:40	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 13:40	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					10/15/22 13:40	1
4-Bromofluorobenzene (Surr)	96		73 - 120					10/15/22 13:40	1
Dibromofluoromethane (Surr)	98		75 - 123					10/15/22 13:40	1
Toluene-d8 (Surr)	97		80 - 120					10/15/22 13:40	1

## Method: SW846 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	0.35	ug/L		10/11/22 08:43	10/13/22 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119		24 - 146				10/11/22 08:43	10/13/22 19:28	1
2-Fluorobiphenyl	109		37 - 120				10/11/22 08:43	10/13/22 19:28	1
2-Fluorophenol (Surr)	57		10 - 120				10/11/22 08:43	10/13/22 19:28	1
Nitrobenzene-d5 (Surr)	84		26 - 120				10/11/22 08:43	10/13/22 19:28	1
Phenol-d5 (Surr)	39		11 - 120				10/11/22 08:43	10/13/22 19:28	1
p-Terphenyl-d14	111		64 - 127				10/11/22 08:43	10/13/22 19:28	1

## Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 13:05	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/12/22 13:18	10/15/22 13:05	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/12/22 13:18	10/15/22 13:05	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/12/22 13:18	10/15/22 13:05	1
1-Methylnaphthalene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/12/22 13:18	10/15/22 13:05	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/12/22 13:18	10/15/22 13:05	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-06A-100522**

**Lab Sample ID: 180-145689-1**

Date Collected: 10/05/22 09:05

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/12/22 13:18	10/15/22 13:05	1
2-Chlorophenol	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 13:05	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		10/12/22 13:18	10/15/22 13:05	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/12/22 13:18	10/15/22 13:05	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/12/22 13:18	10/15/22 13:05	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/12/22 13:18	10/15/22 13:05	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/12/22 13:18	10/15/22 13:05	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/12/22 13:18	10/15/22 13:05	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/12/22 13:18	10/15/22 13:05	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/12/22 13:18	10/15/22 13:05	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/12/22 13:18	10/15/22 13:05	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/12/22 13:18	10/15/22 13:05	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/12/22 13:18	10/15/22 13:05	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/12/22 13:18	10/15/22 13:05	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/12/22 13:18	10/15/22 13:05	1
Acenaphthene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/15/22 13:05	1
Acenaphthylene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/15/22 13:05	1
Anthracene	ND		0.21	0.053	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzoic acid	ND		5.4	1.0	ug/L		10/12/22 13:18	10/15/22 13:05	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/15/22 13:05	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/12/22 13:18	10/15/22 13:05	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/12/22 13:18	10/15/22 13:05	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		10/12/22 13:18	10/15/22 13:05	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/12/22 13:18	10/15/22 13:05	1
Butyl benzyl phthalate	ND		1.1	0.50	ug/L		10/12/22 13:18	10/15/22 13:05	1
Chrysene	ND		0.21	0.088	ug/L		10/12/22 13:18	10/15/22 13:05	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/12/22 13:18	10/15/22 13:05	1
Dibenzofuran	ND		1.1	0.21	ug/L		10/12/22 13:18	10/15/22 13:05	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/12/22 13:18	10/15/22 13:05	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/12/22 13:18	10/15/22 13:05	1
<b>Di-n-butyl phthalate</b>	<b>1.0</b>	<b>J</b>	1.1	0.81	ug/L		10/12/22 13:18	10/15/22 13:05	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/12/22 13:18	10/15/22 13:05	1
Fluoranthene	ND		0.21	0.065	ug/L		10/12/22 13:18	10/15/22 13:05	1
Fluorene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 13:05	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/15/22 13:05	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 13:05	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/12/22 13:18	10/15/22 13:05	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 13:05	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/12/22 13:18	10/15/22 13:05	1
Isophorone	ND		1.1	0.20	ug/L		10/12/22 13:18	10/15/22 13:05	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/12/22 13:18	10/15/22 13:05	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/12/22 13:18	10/15/22 13:05	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/12/22 13:18	10/15/22 13:05	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/12/22 13:18	10/15/22 13:05	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-06A-100522**

**Lab Sample ID: 180-145689-1**

Date Collected: 10/05/22 09:05

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.26		0.21	0.060	ug/L		10/12/22 13:18	10/15/22 13:05	1
Phenol	ND		1.1	0.53	ug/L		10/12/22 13:18	10/15/22 13:05	1
Pyrene	ND		0.21	0.059	ug/L		10/12/22 13:18	10/15/22 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		23 - 128	10/12/22 13:18	10/15/22 13:05	1
2-Fluorobiphenyl	78		20 - 105	10/12/22 13:18	10/15/22 13:05	1
2-Fluorophenol (Surr)	65		20 - 105	10/12/22 13:18	10/15/22 13:05	1
Nitrobenzene-d5 (Surr)	93		20 - 107	10/12/22 13:18	10/15/22 13:05	1
Phenol-d5 (Surr)	63		20 - 106	10/12/22 13:18	10/15/22 13:05	1
Terphenyl-d14 (Surr)	91		22 - 120	10/12/22 13:18	10/15/22 13:05	1

**Client Sample ID: SUPE-W-06C-100522**

**Lab Sample ID: 180-145689-2**

Date Collected: 10/05/22 10:59

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 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			10/15/22 14:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 14:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 14:02	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 14:02	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 14:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 14:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 14:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 14:02	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 14:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 14:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 14:02	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 14:02	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 14:02	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 14:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		10/15/22 14:02	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/15/22 14:02	1
Dibromofluoromethane (Surr)	95		75 - 123		10/15/22 14:02	1
Toluene-d8 (Surr)	97		80 - 120		10/15/22 14:02	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.1	0.38	ug/L		10/11/22 08:43	10/13/22 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	114		24 - 146	10/11/22 08:43	10/13/22 19:00	1
2-Fluorobiphenyl	109		37 - 120	10/11/22 08:43	10/13/22 19:00	1
2-Fluorophenol (Surr)	58		10 - 120	10/11/22 08:43	10/13/22 19:00	1
Nitrobenzene-d5 (Surr)	84		26 - 120	10/11/22 08:43	10/13/22 19:00	1
Phenol-d5 (Surr)	40		11 - 120	10/11/22 08:43	10/13/22 19:00	1
p-Terphenyl-d14	101		64 - 127	10/11/22 08:43	10/13/22 19:00	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-06C-100522**

**Lab Sample ID: 180-145689-2**

Date Collected: 10/05/22 10:59

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	F1	1.0	0.14	ug/L		10/12/22 13:18	10/14/22 21:29	1
1,2-Dichlorobenzene	ND	F1	1.0	0.099	ug/L		10/12/22 13:18	10/14/22 21:29	1
1,3-Dichlorobenzene	ND	F1	1.0	0.10	ug/L		10/12/22 13:18	10/14/22 21:29	1
1,4-Dichlorobenzene	ND	F1	1.0	0.064	ug/L		10/12/22 13:18	10/14/22 21:29	1
1-Methylnaphthalene	ND	F1	0.20	0.058	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,3,4,6-Tetrachlorophenol	ND	F1	1.0	0.34	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,4,5-Trichlorophenol	ND	F1	1.0	0.26	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,4,6-Trichlorophenol	ND	F1	1.0	0.23	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,4-Dichlorophenol	ND	F1	0.20	0.053	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,4-Dimethylphenol	ND	F1	1.0	0.17	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,4-Dinitrophenol	ND	F1	10	1.6	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,4-Dinitrotoluene	ND	F1	1.0	0.37	ug/L		10/12/22 13:18	10/14/22 21:29	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>2-Chloronaphthalene</b>	<b>0.077</b>	<b>J F1</b>	0.20	0.061	ug/L		10/12/22 13:18	10/14/22 21:29	1
2-Chlorophenol	ND	F1	1.0	0.13	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>2-Methylnaphthalene</b>	<b>0.067</b>	<b>J F1</b>	0.20	0.065	ug/L		10/12/22 13:18	10/14/22 21:29	1
2-Methylphenol	ND	F1	1.0	0.31	ug/L		10/12/22 13:18	10/14/22 21:29	1
2-Nitroaniline	ND		5.2	0.57	ug/L		10/12/22 13:18	10/14/22 21:29	1
2-Nitrophenol	ND	F1	1.0	0.20	ug/L		10/12/22 13:18	10/14/22 21:29	1
3,3'-Dichlorobenzidine	ND	F1	1.0	0.61	ug/L		10/12/22 13:18	10/14/22 21:29	1
3-Nitroaniline	ND	F1	5.2	0.46	ug/L		10/12/22 13:18	10/14/22 21:29	1
4,6-Dinitro-2-methylphenol	ND	F1	5.2	1.5	ug/L		10/12/22 13:18	10/14/22 21:29	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		10/12/22 13:18	10/14/22 21:29	1
4-Chloro-3-methylphenol	ND		1.0	0.29	ug/L		10/12/22 13:18	10/14/22 21:29	1
4-Chloroaniline	ND	F1	1.0	0.39	ug/L		10/12/22 13:18	10/14/22 21:29	1
4-Chlorophenyl phenyl ether	ND	F1	1.0	0.23	ug/L		10/12/22 13:18	10/14/22 21:29	1
4-Nitroaniline	ND	F1	5.2	0.38	ug/L		10/12/22 13:18	10/14/22 21:29	1
4-Nitrophenol	ND		5.2	0.98	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Acenaphthene</b>	<b>0.073</b>	<b>J F1</b>	0.20	0.068	ug/L		10/12/22 13:18	10/14/22 21:29	1
Acenaphthylene	ND	F1	0.20	0.068	ug/L		10/12/22 13:18	10/14/22 21:29	1
Anthracene	ND	F1	0.20	0.051	ug/L		10/12/22 13:18	10/14/22 21:29	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		10/12/22 13:18	10/14/22 21:29	1
Benzo[a]pyrene	ND	F1	0.20	0.055	ug/L		10/12/22 13:18	10/14/22 21:29	1
Benzo[b]fluoranthene	ND	F1	0.20	0.10	ug/L		10/12/22 13:18	10/14/22 21:29	1
Benzo[g,h,i]perylene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/14/22 21:29	1
Benzo[k]fluoranthene	ND	F1	0.20	0.092	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Benzoic acid</b>	<b>1.8</b>	<b>J</b>	5.2	0.96	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Benzyl alcohol</b>	<b>1.5</b>		1.0	0.17	ug/L		10/12/22 13:18	10/14/22 21:29	1
Bis(2-chloroethoxy)methane	ND	F1	1.0	0.16	ug/L		10/12/22 13:18	10/14/22 21:29	1
Bis(2-chloroethyl)ether	ND	F1	0.20	0.042	ug/L		10/12/22 13:18	10/14/22 21:29	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		10/12/22 13:18	10/14/22 21:29	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Butyl benzyl phthalate</b>	<b>1.3</b>		1.0	0.48	ug/L		10/12/22 13:18	10/14/22 21:29	1
Chrysene	ND	F1	0.20	0.084	ug/L		10/12/22 13:18	10/14/22 21:29	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		10/12/22 13:18	10/14/22 21:29	1
Dibenzofuran	ND	F1	1.0	0.20	ug/L		10/12/22 13:18	10/14/22 21:29	1
Diethyl phthalate	ND	F1	1.0	0.59	ug/L		10/12/22 13:18	10/14/22 21:29	1
Dimethyl phthalate	ND	F1	1.0	0.21	ug/L		10/12/22 13:18	10/14/22 21:29	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-06C-100522**

**Lab Sample ID: 180-145689-2**

Date Collected: 10/05/22 10:59

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Di-n-butyl phthalate</b>	<b>2.1</b>	<b>F1</b>	1.0	0.77	ug/L		10/12/22 13:18	10/14/22 21:29	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Fluoranthene</b>	<b>0.066</b>	<b>J F1</b>	0.20	0.063	ug/L		10/12/22 13:18	10/14/22 21:29	1
Fluorene	ND	F1	0.20	0.072	ug/L		10/12/22 13:18	10/14/22 21:29	1
Hexachlorobenzene	ND	F1	0.20	0.058	ug/L		10/12/22 13:18	10/14/22 21:29	1
Hexachlorobutadiene	ND	F1	0.20	0.072	ug/L		10/12/22 13:18	10/14/22 21:29	1
Hexachlorocyclopentadiene	ND	F1	1.0	0.52	ug/L		10/12/22 13:18	10/14/22 21:29	1
Hexachloroethane	ND	F1	1.0	0.14	ug/L		10/12/22 13:18	10/14/22 21:29	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		10/12/22 13:18	10/14/22 21:29	1
Isophorone	ND	F1	1.0	0.20	ug/L		10/12/22 13:18	10/14/22 21:29	1
Methylphenol, 3 & 4	ND	F1	1.0	0.39	ug/L		10/12/22 13:18	10/14/22 21:29	1
Nitrobenzene	ND		2.1	0.52	ug/L		10/12/22 13:18	10/14/22 21:29	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		10/12/22 13:18	10/14/22 21:29	1
N-Nitrosodiphenylamine	ND	F1	1.0	0.12	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Phenanthrene</b>	<b>0.34</b>	<b>F1</b>	0.20	0.057	ug/L		10/12/22 13:18	10/14/22 21:29	1
Phenol	ND	F1	1.0	0.51	ug/L		10/12/22 13:18	10/14/22 21:29	1
<b>Pyrene</b>	<b>0.056</b>	<b>J</b>	0.20	0.056	ug/L		10/12/22 13:18	10/14/22 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		23 - 128	10/12/22 13:18	10/14/22 21:29	1
2-Fluorobiphenyl	67		20 - 105	10/12/22 13:18	10/14/22 21:29	1
2-Fluorophenol (Surr)	58		20 - 105	10/12/22 13:18	10/14/22 21:29	1
Nitrobenzene-d5 (Surr)	75		20 - 107	10/12/22 13:18	10/14/22 21:29	1
Phenol-d5 (Surr)	60		20 - 106	10/12/22 13:18	10/14/22 21:29	1
Terphenyl-d14 (Surr)	84		22 - 120	10/12/22 13:18	10/14/22 21:29	1

**Client Sample ID: SUPE-W-12A-100522**

**Lab Sample ID: 180-145689-3**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 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			10/15/22 14:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 14:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 14:26	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 14:26	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 14:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 14:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 14:26	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 14:26	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 14:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 14:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 14:26	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 14:26	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 14:26	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 14:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/15/22 14:26	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-12A-100522**

**Lab Sample ID: 180-145689-3**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/06/22 09:01

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		73 - 120		10/15/22 14:26	1
Dibromofluoromethane (Surr)	98		75 - 123		10/15/22 14:26	1
Toluene-d8 (Surr)	100		80 - 120		10/15/22 14:26	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.2	0.40	ug/L		10/11/22 08:43	10/13/22 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	123		24 - 146	10/11/22 08:43	10/13/22 19:56	1
2-Fluorobiphenyl	114		37 - 120	10/11/22 08:43	10/13/22 19:56	1
2-Fluorophenol (Surr)	60		10 - 120	10/11/22 08:43	10/13/22 19:56	1
Nitrobenzene-d5 (Surr)	87		26 - 120	10/11/22 08:43	10/13/22 19:56	1
Phenol-d5 (Surr)	42		11 - 120	10/11/22 08:43	10/13/22 19:56	1
p-Terphenyl-d14	117		64 - 127	10/11/22 08:43	10/13/22 19:56	1

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/12/22 13:18	10/14/22 22:33	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/12/22 13:18	10/14/22 22:33	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/12/22 13:18	10/14/22 22:33	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/12/22 13:18	10/14/22 22:33	1
1-Methylnaphthalene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/12/22 13:18	10/14/22 22:33	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/12/22 13:18	10/14/22 22:33	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/12/22 13:18	10/14/22 22:33	1
2-Chlorophenol	ND		1.1	0.14	ug/L		10/12/22 13:18	10/14/22 22:33	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		10/12/22 13:18	10/14/22 22:33	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/12/22 13:18	10/14/22 22:33	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/12/22 13:18	10/14/22 22:33	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/12/22 13:18	10/14/22 22:33	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/12/22 13:18	10/14/22 22:33	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/12/22 13:18	10/14/22 22:33	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/12/22 13:18	10/14/22 22:33	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/12/22 13:18	10/14/22 22:33	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/12/22 13:18	10/14/22 22:33	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/12/22 13:18	10/14/22 22:33	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/12/22 13:18	10/14/22 22:33	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/12/22 13:18	10/14/22 22:33	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/12/22 13:18	10/14/22 22:33	1
Acenaphthene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/14/22 22:33	1
Acenaphthylene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/14/22 22:33	1
<b>Anthracene</b>	<b>0.10</b>	<b>J</b>	0.21	0.053	ug/L		10/12/22 13:18	10/14/22 22:33	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-12A-100522**

**Lab Sample ID: 180-145689-3**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/12/22 13:18	10/14/22 22:33	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/12/22 13:18	10/14/22 22:33	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/12/22 13:18	10/14/22 22:33	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/14/22 22:33	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/12/22 13:18	10/14/22 22:33	1
Benzoic acid	ND		5.4	1.0	ug/L		10/12/22 13:18	10/14/22 22:33	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/14/22 22:33	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/12/22 13:18	10/14/22 22:33	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/12/22 13:18	10/14/22 22:33	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		10/12/22 13:18	10/14/22 22:33	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/12/22 13:18	10/14/22 22:33	1
Butyl benzyl phthalate	ND		1.1	0.50	ug/L		10/12/22 13:18	10/14/22 22:33	1
Chrysene	ND		0.21	0.088	ug/L		10/12/22 13:18	10/14/22 22:33	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/12/22 13:18	10/14/22 22:33	1
Dibenzofuran	ND		1.1	0.21	ug/L		10/12/22 13:18	10/14/22 22:33	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/12/22 13:18	10/14/22 22:33	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/12/22 13:18	10/14/22 22:33	1
<b>Di-n-butyl phthalate</b>	<b>1.7</b>		1.1	0.81	ug/L		10/12/22 13:18	10/14/22 22:33	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/12/22 13:18	10/14/22 22:33	1
Fluoranthene	ND		0.21	0.065	ug/L		10/12/22 13:18	10/14/22 22:33	1
Fluorene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/14/22 22:33	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/14/22 22:33	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/14/22 22:33	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/12/22 13:18	10/14/22 22:33	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/12/22 13:18	10/14/22 22:33	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/12/22 13:18	10/14/22 22:33	1
Isophorone	ND		1.1	0.20	ug/L		10/12/22 13:18	10/14/22 22:33	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/12/22 13:18	10/14/22 22:33	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/12/22 13:18	10/14/22 22:33	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/12/22 13:18	10/14/22 22:33	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/12/22 13:18	10/14/22 22:33	1
<b>Phenanthrene</b>	<b>0.093</b>	<b>J</b>	0.21	0.060	ug/L		10/12/22 13:18	10/14/22 22:33	1
Phenol	ND		1.1	0.53	ug/L		10/12/22 13:18	10/14/22 22:33	1
Pyrene	ND		0.21	0.059	ug/L		10/12/22 13:18	10/14/22 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		23 - 128	10/12/22 13:18	10/14/22 22:33	1
2-Fluorobiphenyl	39		20 - 105	10/12/22 13:18	10/14/22 22:33	1
2-Fluorophenol (Surr)	36		20 - 105	10/12/22 13:18	10/14/22 22:33	1
Nitrobenzene-d5 (Surr)	44		20 - 107	10/12/22 13:18	10/14/22 22:33	1
Phenol-d5 (Surr)	38		20 - 106	10/12/22 13:18	10/14/22 22:33	1
Terphenyl-d14 (Surr)	55		22 - 120	10/12/22 13:18	10/14/22 22:33	1

**Client Sample ID: SUPE-W-30C-100422**

**Lab Sample ID: 180-145689-4**

Date Collected: 10/04/22 18:32

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 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			10/11/22 15:25	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-30C-100422**

**Lab Sample ID: 180-145689-4**

Date Collected: 10/04/22 18:32

Matrix: Water

Date Received: 10/06/22 09:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/11/22 15:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/11/22 15:25	1
Benzene	ND		1.0	0.41	ug/L			10/11/22 15:25	1
Chloromethane	ND		1.0	0.35	ug/L			10/11/22 15:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/11/22 15:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/11/22 15:25	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/11/22 15:25	1
Naphthalene	ND		1.0	0.43	ug/L			10/11/22 15:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/11/22 15:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/11/22 15:25	1
o-Xylene	ND		1.0	0.76	ug/L			10/11/22 15:25	1
Styrene	ND		1.0	0.73	ug/L			10/11/22 15:25	1
Toluene	ND		1.0	0.51	ug/L			10/11/22 15:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/11/22 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		77 - 120		10/11/22 15:25	1
4-Bromofluorobenzene (Surr)	90		73 - 120		10/11/22 15:25	1
Dibromofluoromethane (Surr)	92		75 - 123		10/11/22 15:25	1
Toluene-d8 (Surr)	85		80 - 120		10/11/22 15:25	1

## Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.46	J	1.0	0.34	ug/L		10/11/22 08:43	10/13/22 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		24 - 146	10/11/22 08:43	10/13/22 20:23	1
2-Fluorobiphenyl	99		37 - 120	10/11/22 08:43	10/13/22 20:23	1
2-Fluorophenol (Surr)	50		10 - 120	10/11/22 08:43	10/13/22 20:23	1
Nitrobenzene-d5 (Surr)	74		26 - 120	10/11/22 08:43	10/13/22 20:23	1
Phenol-d5 (Surr)	34		11 - 120	10/11/22 08:43	10/13/22 20:23	1
p-Terphenyl-d14	95		64 - 127	10/11/22 08:43	10/13/22 20:23	1

## Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/08/22 17:39	10/13/22 23:44	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/08/22 17:39	10/13/22 23:44	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/08/22 17:39	10/13/22 23:44	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/08/22 17:39	10/13/22 23:44	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/08/22 17:39	10/13/22 23:44	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/08/22 17:39	10/13/22 23:44	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/08/22 17:39	10/13/22 23:44	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-30C-100422**

**Lab Sample ID: 180-145689-4**

Date Collected: 10/04/22 18:32

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		1.0	0.13	ug/L		10/08/22 17:39	10/13/22 23:44	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/08/22 17:39	10/13/22 23:44	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/08/22 17:39	10/13/22 23:44	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/08/22 17:39	10/13/22 23:44	1
2-Nitrophenol	ND	+	1.0	0.19	ug/L		10/08/22 17:39	10/13/22 23:44	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/08/22 17:39	10/13/22 23:44	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/08/22 17:39	10/13/22 23:44	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/08/22 17:39	10/13/22 23:44	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/08/22 17:39	10/13/22 23:44	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/08/22 17:39	10/13/22 23:44	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/08/22 17:39	10/13/22 23:44	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/08/22 17:39	10/13/22 23:44	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/08/22 17:39	10/13/22 23:44	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/08/22 17:39	10/13/22 23:44	1
Acenaphthene	ND		0.19	0.065	ug/L		10/08/22 17:39	10/13/22 23:44	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/08/22 17:39	10/13/22 23:44	1
<b>Anthracene</b>	<b>0.20</b>		0.19	0.049	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzoic acid	ND		5.0	0.92	ug/L		10/08/22 17:39	10/13/22 23:44	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/08/22 17:39	10/13/22 23:44	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/08/22 17:39	10/13/22 23:44	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/08/22 17:39	10/13/22 23:44	1
Bis(2-ethylhexyl) phthalate	ND	+	10	6.2	ug/L		10/08/22 17:39	10/13/22 23:44	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/08/22 17:39	10/13/22 23:44	1
Butyl benzyl phthalate	ND	+	1.0	0.46	ug/L		10/08/22 17:39	10/13/22 23:44	1
Chrysene	ND		0.19	0.081	ug/L		10/08/22 17:39	10/13/22 23:44	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/08/22 17:39	10/13/22 23:44	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/08/22 17:39	10/13/22 23:44	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/08/22 17:39	10/13/22 23:44	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/08/22 17:39	10/13/22 23:44	1
<b>Di-n-butyl phthalate</b>	<b>1.7</b>		1.0	0.74	ug/L		10/08/22 17:39	10/13/22 23:44	1
Di-n-octyl phthalate	ND	+	1.0	0.69	ug/L		10/08/22 17:39	10/13/22 23:44	1
Fluoranthene	ND		0.19	0.060	ug/L		10/08/22 17:39	10/13/22 23:44	1
Fluorene	ND		0.19	0.069	ug/L		10/08/22 17:39	10/13/22 23:44	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/08/22 17:39	10/13/22 23:44	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/08/22 17:39	10/13/22 23:44	1
Hexachlorocyclopentadiene	ND	+	1.0	0.50	ug/L		10/08/22 17:39	10/13/22 23:44	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/08/22 17:39	10/13/22 23:44	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/08/22 17:39	10/13/22 23:44	1
Isophorone	ND		1.0	0.19	ug/L		10/08/22 17:39	10/13/22 23:44	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/08/22 17:39	10/13/22 23:44	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/08/22 17:39	10/13/22 23:44	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/08/22 17:39	10/13/22 23:44	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/08/22 17:39	10/13/22 23:44	1
<b>Phenanthrene</b>	<b>0.12</b>	<b>J</b>	0.19	0.055	ug/L		10/08/22 17:39	10/13/22 23:44	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-W-30C-100422**

**Lab Sample ID: 180-145689-4**

Date Collected: 10/04/22 18:32

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.0	0.49	ug/L		10/08/22 17:39	10/13/22 23:44	1
Pyrene	ND		0.19	0.054	ug/L		10/08/22 17:39	10/13/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	47		23 - 128				10/08/22 17:39	10/13/22 23:44	1
2-Fluorobiphenyl	50		20 - 105				10/08/22 17:39	10/13/22 23:44	1
2-Fluorophenol (Surr)	43		20 - 105				10/08/22 17:39	10/13/22 23:44	1
Nitrobenzene-d5 (Surr)	56		20 - 107				10/08/22 17:39	10/13/22 23:44	1
Phenol-d5 (Surr)	37		20 - 106				10/08/22 17:39	10/13/22 23:44	1
Terphenyl-d14 (Surr)	41		22 - 120				10/08/22 17:39	10/13/22 23:44	1

**Client Sample ID: SUPE-EB1-100422**

**Lab Sample ID: 180-145689-5**

Date Collected: 10/04/22 19:10

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 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			10/11/22 15:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/11/22 15:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/11/22 15:47	1
Benzene	ND		1.0	0.41	ug/L			10/11/22 15:47	1
Chloromethane	ND		1.0	0.35	ug/L			10/11/22 15:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/11/22 15:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/11/22 15:47	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/11/22 15:47	1
Naphthalene	ND		1.0	0.43	ug/L			10/11/22 15:47	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/11/22 15:47	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/11/22 15:47	1
o-Xylene	ND		1.0	0.76	ug/L			10/11/22 15:47	1
Styrene	ND		1.0	0.73	ug/L			10/11/22 15:47	1
Toluene	ND		1.0	0.51	ug/L			10/11/22 15:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/11/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120					10/11/22 15:47	1
4-Bromofluorobenzene (Surr)	89		73 - 120					10/11/22 15:47	1
Dibromofluoromethane (Surr)	90		75 - 123					10/11/22 15:47	1
Toluene-d8 (Surr)	89		80 - 120					10/11/22 15:47	1

**Method: SW846 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		10/11/22 08:43	10/13/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		24 - 146				10/11/22 08:43	10/13/22 20:51	1
2-Fluorobiphenyl	109		37 - 120				10/11/22 08:43	10/13/22 20:51	1
2-Fluorophenol (Surr)	54		10 - 120				10/11/22 08:43	10/13/22 20:51	1
Nitrobenzene-d5 (Surr)	81		26 - 120				10/11/22 08:43	10/13/22 20:51	1
Phenol-d5 (Surr)	39		11 - 120				10/11/22 08:43	10/13/22 20:51	1
p-Terphenyl-d14	117		64 - 127				10/11/22 08:43	10/13/22 20:51	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-EB1-100422**

**Lab Sample ID: 180-145689-5**

Date Collected: 10/04/22 19:10

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.14	ug/L		10/08/22 17:39	10/14/22 00:05	1
1,2-Dichlorobenzene	ND		1.0	0.099	ug/L		10/08/22 17:39	10/14/22 00:05	1
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L		10/08/22 17:39	10/14/22 00:05	1
1,4-Dichlorobenzene	ND		1.0	0.064	ug/L		10/08/22 17:39	10/14/22 00:05	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,4-Dinitrophenol	ND		10	1.6	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		10/08/22 17:39	10/14/22 00:05	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		10/08/22 17:39	10/14/22 00:05	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		10/08/22 17:39	10/14/22 00:05	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/08/22 17:39	10/14/22 00:05	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		10/08/22 17:39	10/14/22 00:05	1
2-Methylphenol	ND		1.0	0.31	ug/L		10/08/22 17:39	10/14/22 00:05	1
2-Nitroaniline	ND		5.2	0.57	ug/L		10/08/22 17:39	10/14/22 00:05	1
2-Nitrophenol	ND	+	1.0	0.20	ug/L		10/08/22 17:39	10/14/22 00:05	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		10/08/22 17:39	10/14/22 00:05	1
3-Nitroaniline	ND		5.2	0.46	ug/L		10/08/22 17:39	10/14/22 00:05	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		10/08/22 17:39	10/14/22 00:05	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		10/08/22 17:39	10/14/22 00:05	1
4-Chloro-3-methylphenol	ND		1.0	0.29	ug/L		10/08/22 17:39	10/14/22 00:05	1
4-Chloroaniline	ND		1.0	0.39	ug/L		10/08/22 17:39	10/14/22 00:05	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		10/08/22 17:39	10/14/22 00:05	1
4-Nitroaniline	ND		5.2	0.38	ug/L		10/08/22 17:39	10/14/22 00:05	1
4-Nitrophenol	ND		5.2	0.98	ug/L		10/08/22 17:39	10/14/22 00:05	1
Acenaphthene	ND		0.20	0.068	ug/L		10/08/22 17:39	10/14/22 00:05	1
Acenaphthylene	ND		0.20	0.068	ug/L		10/08/22 17:39	10/14/22 00:05	1
Anthracene	ND		0.20	0.051	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzo[g,h,i]perylene	ND		0.20	0.072	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzoic acid	ND		5.2	0.96	ug/L		10/08/22 17:39	10/14/22 00:05	1
Benzyl alcohol	ND		1.0	0.17	ug/L		10/08/22 17:39	10/14/22 00:05	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		10/08/22 17:39	10/14/22 00:05	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		10/08/22 17:39	10/14/22 00:05	1
Bis(2-ethylhexyl) phthalate	ND	+	10	6.5	ug/L		10/08/22 17:39	10/14/22 00:05	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		10/08/22 17:39	10/14/22 00:05	1
Butyl benzyl phthalate	ND	+	1.0	0.48	ug/L		10/08/22 17:39	10/14/22 00:05	1
Chrysene	ND		0.20	0.084	ug/L		10/08/22 17:39	10/14/22 00:05	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		10/08/22 17:39	10/14/22 00:05	1
Dibenzofuran	ND		1.0	0.20	ug/L		10/08/22 17:39	10/14/22 00:05	1
Diethyl phthalate	ND		1.0	0.59	ug/L		10/08/22 17:39	10/14/22 00:05	1
Dimethyl phthalate	ND		1.0	0.21	ug/L		10/08/22 17:39	10/14/22 00:05	1

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# Client Sample Results

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

Job ID: 180-145689-1

**Client Sample ID: SUPE-EB1-100422**

**Lab Sample ID: 180-145689-5**

Date Collected: 10/04/22 19:10

Matrix: Water

Date Received: 10/06/22 09:01

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Di-n-butyl phthalate</b>	<b>1.5</b>		1.0	0.77	ug/L		10/08/22 17:39	10/14/22 00:05	1
Di-n-octyl phthalate	ND	*+	1.0	0.71	ug/L		10/08/22 17:39	10/14/22 00:05	1
Fluoranthene	ND		0.20	0.063	ug/L		10/08/22 17:39	10/14/22 00:05	1
Fluorene	ND		0.20	0.072	ug/L		10/08/22 17:39	10/14/22 00:05	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		10/08/22 17:39	10/14/22 00:05	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		10/08/22 17:39	10/14/22 00:05	1
Hexachlorocyclopentadiene	ND	*+	1.0	0.52	ug/L		10/08/22 17:39	10/14/22 00:05	1
Hexachloroethane	ND		1.0	0.14	ug/L		10/08/22 17:39	10/14/22 00:05	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		10/08/22 17:39	10/14/22 00:05	1
Isophorone	ND		1.0	0.20	ug/L		10/08/22 17:39	10/14/22 00:05	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		10/08/22 17:39	10/14/22 00:05	1
Nitrobenzene	ND		2.1	0.52	ug/L		10/08/22 17:39	10/14/22 00:05	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		10/08/22 17:39	10/14/22 00:05	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/08/22 17:39	10/14/22 00:05	1
<b>Phenanthrene</b>	<b>0.13</b>	<b>J</b>	0.20	0.057	ug/L		10/08/22 17:39	10/14/22 00:05	1
Phenol	ND		1.0	0.51	ug/L		10/08/22 17:39	10/14/22 00:05	1
Pyrene	ND		0.20	0.056	ug/L		10/08/22 17:39	10/14/22 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		23 - 128	10/08/22 17:39	10/14/22 00:05	1
2-Fluorobiphenyl	54		20 - 105	10/08/22 17:39	10/14/22 00:05	1
2-Fluorophenol (Surr)	49		20 - 105	10/08/22 17:39	10/14/22 00:05	1
Nitrobenzene-d5 (Surr)	63		20 - 107	10/08/22 17:39	10/14/22 00:05	1
Phenol-d5 (Surr)	46		20 - 106	10/08/22 17:39	10/14/22 00:05	1
Terphenyl-d14 (Surr)	69		22 - 120	10/08/22 17:39	10/14/22 00:05	1



# QC Sample Results

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

Job ID: 180-145689-1

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

**Lab Sample ID: MB 480-644817/10**  
**Matrix: Water**  
**Analysis Batch: 644817**

**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			10/11/22 12:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/11/22 12:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/11/22 12:45	1
Benzene	ND		1.0	0.41	ug/L			10/11/22 12:45	1
Chloromethane	ND		1.0	0.35	ug/L			10/11/22 12:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/11/22 12:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/11/22 12:45	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/11/22 12:45	1
Naphthalene	ND		1.0	0.43	ug/L			10/11/22 12:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/11/22 12:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/11/22 12:45	1
o-Xylene	ND		1.0	0.76	ug/L			10/11/22 12:45	1
Styrene	ND		1.0	0.73	ug/L			10/11/22 12:45	1
Toluene	ND		1.0	0.51	ug/L			10/11/22 12:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/11/22 12:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		10/11/22 12:45	1
4-Bromofluorobenzene (Surr)	93		73 - 120		10/11/22 12:45	1
Dibromofluoromethane (Surr)	89		75 - 123		10/11/22 12:45	1
Toluene-d8 (Surr)	90		80 - 120		10/11/22 12:45	1

**Lab Sample ID: LCS 480-644817/58**  
**Matrix: Water**  
**Analysis Batch: 644817**

**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	21.7		ug/L		87	73 - 126
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		92	76 - 121
1,3,5-Trimethylbenzene	25.0	22.7		ug/L		91	77 - 121
Benzene	25.0	23.0		ug/L		92	71 - 124
Chloromethane	25.0	20.4		ug/L		82	68 - 124
Ethylbenzene	25.0	21.7		ug/L		87	77 - 123
Methyl tert-butyl ether	25.0	23.7		ug/L		95	77 - 120
m-Xylene & p-Xylene	25.0	21.9		ug/L		87	76 - 122
Naphthalene	25.0	23.4		ug/L		94	66 - 125
n-Butylbenzene	25.0	22.4		ug/L		90	71 - 128
N-Propylbenzene	25.0	22.7		ug/L		91	75 - 127
o-Xylene	25.0	22.3		ug/L		89	76 - 122
Styrene	25.0	22.6		ug/L		90	80 - 120
Toluene	25.0	22.2		ug/L		89	80 - 122
Xylenes, Total	50.0	44.2		ug/L		88	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123
Toluene-d8 (Surr)	90		80 - 120

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# QC Sample Results

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

Job ID: 180-145689-1

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

**Lab Sample ID: MB 480-645602/7**  
**Matrix: Water**  
**Analysis Batch: 645602**

**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			10/15/22 13:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 13:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 13:15	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 13:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 13:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 13:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 13:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 13:15	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 13:15	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 13:15	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 13:15	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 13:15	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 13:15	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 13:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 13:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		10/15/22 13:15	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/15/22 13:15	1
Dibromofluoromethane (Surr)	98		75 - 123		10/15/22 13:15	1
Toluene-d8 (Surr)	96		80 - 120		10/15/22 13:15	1

**Lab Sample ID: LCS 480-645602/5**  
**Matrix: Water**  
**Analysis Batch: 645602**

**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	21.2		ug/L		85	73 - 126
1,2,4-Trimethylbenzene	25.0	23.2		ug/L		93	76 - 121
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	77 - 121
Benzene	25.0	23.1		ug/L		92	71 - 124
Chloromethane	25.0	23.4		ug/L		94	68 - 124
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Methyl tert-butyl ether	25.0	22.8		ug/L		91	77 - 120
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	76 - 122
Naphthalene	25.0	23.2		ug/L		93	66 - 125
n-Butylbenzene	25.0	23.4		ug/L		94	71 - 128
N-Propylbenzene	25.0	23.6		ug/L		94	75 - 127
o-Xylene	25.0	23.6		ug/L		94	76 - 122
Styrene	25.0	25.1		ug/L		100	80 - 120
Toluene	25.0	22.4		ug/L		90	80 - 122
Xylenes, Total	50.0	47.1		ug/L		94	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	99		80 - 120

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# QC Sample Results

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

Job ID: 180-145689-1

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

**Lab Sample ID: MB 480-645737/7**  
**Matrix: Water**  
**Analysis Batch: 645737**

**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			10/17/22 11:05	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/17/22 11:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/17/22 11:05	1
Benzene	ND		1.0	0.41	ug/L			10/17/22 11:05	1
Chloromethane	ND		1.0	0.35	ug/L			10/17/22 11:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/17/22 11:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/17/22 11:05	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/17/22 11:05	1
Naphthalene	ND		1.0	0.43	ug/L			10/17/22 11:05	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/17/22 11:05	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/17/22 11:05	1
o-Xylene	ND		1.0	0.76	ug/L			10/17/22 11:05	1
Styrene	ND		1.0	0.73	ug/L			10/17/22 11:05	1
Toluene	ND		1.0	0.51	ug/L			10/17/22 11:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/17/22 11:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		10/17/22 11:05	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/17/22 11:05	1
Dibromofluoromethane (Surr)	94		75 - 123		10/17/22 11:05	1
Toluene-d8 (Surr)	100		80 - 120		10/17/22 11:05	1

**Lab Sample ID: LCS 480-645737/5**  
**Matrix: Water**  
**Analysis Batch: 645737**

**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	21.5		ug/L		86	73 - 126
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	76 - 121
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	77 - 121
Benzene	25.0	24.3		ug/L		97	71 - 124
Chloromethane	25.0	24.3		ug/L		97	68 - 124
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Methyl tert-butyl ether	25.0	21.4		ug/L		85	77 - 120
m-Xylene & p-Xylene	25.0	24.1		ug/L		96	76 - 122
Naphthalene	25.0	26.5		ug/L		106	66 - 125
n-Butylbenzene	25.0	25.9		ug/L		104	71 - 128
N-Propylbenzene	25.0	25.8		ug/L		103	75 - 127
o-Xylene	25.0	23.5		ug/L		94	76 - 122
Styrene	25.0	24.7		ug/L		99	80 - 120
Toluene	25.0	23.7		ug/L		95	80 - 122
Xylenes, Total	50.0	47.6		ug/L		95	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123
Toluene-d8 (Surr)	99		80 - 120

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# QC Sample Results

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

Job ID: 180-145689-1

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

**Lab Sample ID: 180-145689-2 MS**

**Matrix: Water**

**Analysis Batch: 645737**

**Client Sample ID: SUPE-W-06C-100522**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		25.0	22.7		ug/L		91	73 - 126
1,2,4-Trimethylbenzene	ND		25.0	24.4		ug/L		98	76 - 121
1,3,5-Trimethylbenzene	ND		25.0	24.2		ug/L		97	77 - 121
Benzene	ND		25.0	25.1		ug/L		100	71 - 124
Chloromethane	ND		25.0	26.2		ug/L		105	68 - 124
Ethylbenzene	ND		25.0	24.6		ug/L		98	77 - 123
Methyl tert-butyl ether	ND		25.0	26.5		ug/L		106	77 - 120
m-Xylene & p-Xylene	ND		25.0	25.4		ug/L		101	76 - 122
Naphthalene	ND		25.0	25.9		ug/L		104	66 - 125
n-Butylbenzene	ND		25.0	24.9		ug/L		100	71 - 128
N-Propylbenzene	ND		25.0	24.7		ug/L		99	75 - 127
o-Xylene	ND		25.0	25.0		ug/L		100	76 - 122
Styrene	ND		25.0	26.4		ug/L		105	80 - 120
Toluene	ND		25.0	24.6		ug/L		98	80 - 122
Xylenes, Total	ND		50.0	50.4		ug/L		101	76 - 122

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: 180-145689-2 MSD**

**Matrix: Water**

**Analysis Batch: 645737**

**Client Sample ID: SUPE-W-06C-100522**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	22.4		ug/L		90	73 - 126	1	15
1,2,4-Trimethylbenzene	ND		25.0	25.8		ug/L		103	76 - 121	6	20
1,3,5-Trimethylbenzene	ND		25.0	25.4		ug/L		102	77 - 121	5	20
Benzene	ND		25.0	24.7		ug/L		99	71 - 124	2	13
Chloromethane	ND		25.0	25.4		ug/L		101	68 - 124	3	15
Ethylbenzene	ND		25.0	25.7		ug/L		103	77 - 123	4	15
Methyl tert-butyl ether	ND		25.0	25.0		ug/L		100	77 - 120	6	37
m-Xylene & p-Xylene	ND		25.0	26.0		ug/L		104	76 - 122	2	16
Naphthalene	ND		25.0	26.5		ug/L		106	66 - 125	2	20
n-Butylbenzene	ND		25.0	26.3		ug/L		105	71 - 128	5	15
N-Propylbenzene	ND		25.0	26.1		ug/L		104	75 - 127	5	15
o-Xylene	ND		25.0	25.9		ug/L		104	76 - 122	3	16
Styrene	ND		25.0	26.6		ug/L		107	80 - 120	1	20
Toluene	ND		25.0	24.9		ug/L		100	80 - 122	1	15
Xylenes, Total	ND		50.0	51.9		ug/L		104	76 - 122	3	16

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	99		80 - 120

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# QC Sample Results

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

Job ID: 180-145689-1

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

**Lab Sample ID: MB 480-644801/1-A**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 644801**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1.0	0.34	ug/L		10/11/22 08:43	10/13/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		24 - 146				10/11/22 08:43	10/13/22 17:09	1
2-Fluorobiphenyl	99		37 - 120				10/11/22 08:43	10/13/22 17:09	1
2-Fluorophenol (Surr)	51		10 - 120				10/11/22 08:43	10/13/22 17:09	1
Nitrobenzene-d5 (Surr)	80		26 - 120				10/11/22 08:43	10/13/22 17:09	1
Phenol-d5 (Surr)	35		11 - 120				10/11/22 08:43	10/13/22 17:09	1
p-Terphenyl-d14	106		64 - 127				10/11/22 08:43	10/13/22 17:09	1

**Lab Sample ID: LCS 480-644801/2-A**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 644801**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Pentachlorophenol	16.0	14.4		ug/L		90	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	111		24 - 146				
2-Fluorobiphenyl	102		37 - 120				
2-Fluorophenol (Surr)	54		10 - 120				
Nitrobenzene-d5 (Surr)	82		26 - 120				
Phenol-d5 (Surr)	39		11 - 120				
p-Terphenyl-d14	105		64 - 127				

**Lab Sample ID: 180-145689-2 MS**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: SUPE-W-06C-100522**  
**Prep Type: Total/NA**  
**Prep Batch: 644801**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Pentachlorophenol	ND		18.2	15.8		ug/L		87	23 - 149
Surrogate	%Recovery	Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	104		24 - 146						
2-Fluorobiphenyl	96		37 - 120						
2-Fluorophenol (Surr)	52		10 - 120						
Nitrobenzene-d5 (Surr)	77		26 - 120						
Phenol-d5 (Surr)	39		11 - 120						
p-Terphenyl-d14	85		64 - 127						

**Lab Sample ID: 180-145689-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: SUPE-W-06C-100522**  
**Prep Type: Total/NA**  
**Prep Batch: 644801**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Pentachlorophenol	ND		18.0	17.0		ug/L		95	23 - 149	7	37

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# QC Sample Results

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

Job ID: 180-145689-1

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

Lab Sample ID: 180-145689-2 MSD  
Matrix: Water  
Analysis Batch: 645323

Client Sample ID: SUPE-W-06C-100522  
Prep Type: Total/NA  
Prep Batch: 644801

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	115		24 - 146
2-Fluorobiphenyl	101		37 - 120
2-Fluorophenol (Surr)	54		10 - 120
Nitrobenzene-d5 (Surr)	82		26 - 120
Phenol-d5 (Surr)	41		11 - 120
p-Terphenyl-d14	90		64 - 127

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-414522/1-A  
Matrix: Water  
Analysis Batch: 414968

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 414522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/08/22 17:39	10/13/22 14:39	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/08/22 17:39	10/13/22 14:39	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/08/22 17:39	10/13/22 14:39	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/08/22 17:39	10/13/22 14:39	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/08/22 17:39	10/13/22 14:39	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/08/22 17:39	10/13/22 14:39	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/08/22 17:39	10/13/22 14:39	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/08/22 17:39	10/13/22 14:39	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/08/22 17:39	10/13/22 14:39	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/08/22 17:39	10/13/22 14:39	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/08/22 17:39	10/13/22 14:39	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/08/22 17:39	10/13/22 14:39	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/08/22 17:39	10/13/22 14:39	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/08/22 17:39	10/13/22 14:39	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/08/22 17:39	10/13/22 14:39	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/08/22 17:39	10/13/22 14:39	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/08/22 17:39	10/13/22 14:39	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/08/22 17:39	10/13/22 14:39	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/08/22 17:39	10/13/22 14:39	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/08/22 17:39	10/13/22 14:39	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/08/22 17:39	10/13/22 14:39	1
Acenaphthene	ND		0.19	0.065	ug/L		10/08/22 17:39	10/13/22 14:39	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/08/22 17:39	10/13/22 14:39	1
Anthracene	ND		0.19	0.049	ug/L		10/08/22 17:39	10/13/22 14:39	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/08/22 17:39	10/13/22 14:39	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/08/22 17:39	10/13/22 14:39	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/08/22 17:39	10/13/22 14:39	1

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-414522/1-A**  
**Matrix: Water**  
**Analysis Batch: 414968**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[ <i>g,h,i</i> ]perylene	ND		0.19	0.069	ug/L		10/08/22 17:39	10/13/22 14:39	1
Benzo[ <i>k</i> ]fluoranthene	ND		0.19	0.088	ug/L		10/08/22 17:39	10/13/22 14:39	1
Benzoic acid	ND		5.0	0.92	ug/L		10/08/22 17:39	10/13/22 14:39	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/08/22 17:39	10/13/22 14:39	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/08/22 17:39	10/13/22 14:39	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/08/22 17:39	10/13/22 14:39	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/08/22 17:39	10/13/22 14:39	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/08/22 17:39	10/13/22 14:39	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/08/22 17:39	10/13/22 14:39	1
Chrysene	ND		0.19	0.081	ug/L		10/08/22 17:39	10/13/22 14:39	1
Dibenz( <i>a,h</i> )anthracene	ND		0.19	0.072	ug/L		10/08/22 17:39	10/13/22 14:39	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/08/22 17:39	10/13/22 14:39	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/08/22 17:39	10/13/22 14:39	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/08/22 17:39	10/13/22 14:39	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/08/22 17:39	10/13/22 14:39	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/08/22 17:39	10/13/22 14:39	1
Fluoranthene	ND		0.19	0.060	ug/L		10/08/22 17:39	10/13/22 14:39	1
Fluorene	ND		0.19	0.069	ug/L		10/08/22 17:39	10/13/22 14:39	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/08/22 17:39	10/13/22 14:39	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/08/22 17:39	10/13/22 14:39	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/08/22 17:39	10/13/22 14:39	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/08/22 17:39	10/13/22 14:39	1
Indeno[1,2,3- <i>cd</i> ]pyrene	ND		0.19	0.085	ug/L		10/08/22 17:39	10/13/22 14:39	1
Isophorone	ND		1.0	0.19	ug/L		10/08/22 17:39	10/13/22 14:39	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/08/22 17:39	10/13/22 14:39	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/08/22 17:39	10/13/22 14:39	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/08/22 17:39	10/13/22 14:39	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/08/22 17:39	10/13/22 14:39	1
Phenanthrene	ND		0.19	0.055	ug/L		10/08/22 17:39	10/13/22 14:39	1
Phenol	ND		1.0	0.49	ug/L		10/08/22 17:39	10/13/22 14:39	1
Pyrene	ND		0.19	0.054	ug/L		10/08/22 17:39	10/13/22 14:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	68		23 - 128	10/08/22 17:39	10/13/22 14:39	1
2-Fluorobiphenyl	75		20 - 105	10/08/22 17:39	10/13/22 14:39	1
2-Fluorophenol (Surr)	76		20 - 105	10/08/22 17:39	10/13/22 14:39	1
Nitrobenzene-d5 (Surr)	87		20 - 107	10/08/22 17:39	10/13/22 14:39	1
Phenol-d5 (Surr)	70		20 - 106	10/08/22 17:39	10/13/22 14:39	1
Terphenyl-d14 (Surr)	54		22 - 120	10/08/22 17:39	10/13/22 14:39	1

**Lab Sample ID: LCS 180-414522/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	17.0		ug/L		85	51 - 100
1,3-Dichlorobenzene	20.0	17.4		ug/L		87	51 - 100

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-414522/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	20.0	17.1		ug/L		85	52 - 100
1-Methylnaphthalene	20.0	16.9		ug/L		85	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	16.7		ug/L		83	50 - 100
2,4,5-Trichlorophenol	20.0	18.3		ug/L		92	55 - 100
2,4,6-Trichlorophenol	20.0	19.1		ug/L		96	54 - 100
2,4-Dichlorophenol	20.0	17.7		ug/L		89	55 - 100
2,4-Dimethylphenol	20.0	18.3		ug/L		91	51 - 100
2,4-Dinitrophenol	40.0	30.4		ug/L		76	32 - 100
2,4-Dinitrotoluene	20.0	18.7		ug/L		94	56 - 100
2,6-Dinitrotoluene	20.0	19.5		ug/L		97	56 - 101
2-Chloronaphthalene	20.0	18.1		ug/L		90	52 - 100
2-Chlorophenol	20.0	17.9		ug/L		90	53 - 100
2-Methylnaphthalene	20.0	18.5		ug/L		92	53 - 100
2-Methylphenol	20.0	17.5		ug/L		88	51 - 100
2-Nitroaniline	20.0	20.4		ug/L		102	47 - 104
2-Nitrophenol	20.0	20.6	*+	ug/L		103	56 - 100
3,3'-Dichlorobenzidine	20.0	15.3		ug/L		77	42 - 100
3-Nitroaniline	20.0	19.0		ug/L		95	54 - 100
4,6-Dinitro-2-methylphenol	40.0	35.1		ug/L		88	48 - 100
4-Bromophenyl phenyl ether	20.0	17.7		ug/L		88	50 - 100
4-Chloro-3-methylphenol	20.0	17.4		ug/L		87	47 - 105
4-Chloroaniline	20.0	16.7		ug/L		84	48 - 100
4-Chlorophenyl phenyl ether	20.0	16.9		ug/L		84	52 - 100
4-Nitroaniline	20.0	18.4		ug/L		92	54 - 100
4-Nitrophenol	40.0	36.0		ug/L		90	37 - 120
Acenaphthene	20.0	16.9		ug/L		85	51 - 100
Acenaphthylene	20.0	17.0		ug/L		85	54 - 100
Anthracene	20.0	17.4		ug/L		87	54 - 100
Benzo[a]anthracene	20.0	18.3		ug/L		91	52 - 100
Benzo[a]pyrene	20.0	18.0		ug/L		90	52 - 100
Benzo[b]fluoranthene	20.0	18.2		ug/L		91	50 - 100
Benzo[g,h,i]perylene	20.0	18.3		ug/L		92	53 - 100
Benzo[k]fluoranthene	20.0	18.7		ug/L		93	49 - 100
Benzoic acid	20.0	18.6		ug/L		93	31 - 122
Benzyl alcohol	20.0	16.9		ug/L		85	33 - 107
Bis(2-chloroethoxy)methane	20.0	16.2		ug/L		81	49 - 100
Bis(2-chloroethyl)ether	20.0	17.2		ug/L		86	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	21.7	*+	ug/L		108	52 - 101
bis(chloroisopropyl) ether	20.0	16.7		ug/L		83	29 - 102
Butyl benzyl phthalate	20.0	20.7	*+	ug/L		103	52 - 100
Chrysene	20.0	16.5		ug/L		83	51 - 100
Dibenz(a,h)anthracene	20.0	19.2		ug/L		96	52 - 101
Dibenzofuran	20.0	16.8		ug/L		84	53 - 100
Diethyl phthalate	20.0	16.5		ug/L		82	52 - 100
Dimethyl phthalate	20.0	17.0		ug/L		85	55 - 100
Di-n-butyl phthalate	20.0	18.0		ug/L		90	57 - 100
Di-n-octyl phthalate	20.0	22.3	*+	ug/L		112	41 - 100
Fluoranthene	20.0	16.4		ug/L		82	56 - 100
Fluorene	20.0	17.2		ug/L		86	53 - 100

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-414522/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorobenzene	20.0	16.6		ug/L		83	46 - 100
Hexachlorobutadiene	20.0	17.5		ug/L		87	42 - 101
Hexachlorocyclopentadiene	20.0	21.4	*+	ug/L		107	38 - 102
Hexachloroethane	20.0	17.6		ug/L		88	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	18.7		ug/L		94	54 - 100
Isophorone	20.0	17.4		ug/L		87	50 - 100
Methylphenol, 3 & 4	20.0	16.6		ug/L		83	51 - 100
Nitrobenzene	20.0	19.5		ug/L		97	47 - 100
N-Nitrosodi-n-propylamine	20.0	17.9		ug/L		90	43 - 103
N-Nitrosodiphenylamine	20.0	18.7		ug/L		93	53 - 100
Phenanthrene	20.0	17.6		ug/L		88	53 - 100
Phenol	20.0	17.1		ug/L		85	49 - 100
Pyrene	20.0	18.9		ug/L		95	53 - 100

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		23 - 128
2-Fluorobiphenyl	85		20 - 105
2-Fluorophenol (Surr)	87		20 - 105
Nitrobenzene-d5 (Surr)	99		20 - 107
Phenol-d5 (Surr)	83		20 - 106
Terphenyl-d14 (Surr)	86		22 - 120

**Lab Sample ID: LCSD 180-414522/3-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	20.0	16.6		ug/L		83	51 - 100	4	15
1,2-Dichlorobenzene	20.0	16.2		ug/L		81	51 - 100	5	16
1,3-Dichlorobenzene	20.0	16.3		ug/L		82	51 - 100	6	15
1,4-Dichlorobenzene	20.0	16.4		ug/L		82	52 - 100	4	15
1-Methylnaphthalene	20.0	15.7		ug/L		78	53 - 100	8	15
2,3,4,6-Tetrachlorophenol	20.0	16.3		ug/L		82	50 - 100	2	21
2,4,5-Trichlorophenol	20.0	18.4		ug/L		92	55 - 100	0	18
2,4,6-Trichlorophenol	20.0	18.5		ug/L		92	54 - 100	3	16
2,4-Dichlorophenol	20.0	17.0		ug/L		85	55 - 100	4	15
2,4-Dimethylphenol	20.0	17.8		ug/L		89	51 - 100	2	16
2,4-Dinitrophenol	40.0	28.8		ug/L		72	32 - 100	5	19
2,4-Dinitrotoluene	20.0	18.2		ug/L		91	56 - 100	3	16
2,6-Dinitrotoluene	20.0	18.9		ug/L		94	56 - 101	3	16
2-Chloronaphthalene	20.0	17.4		ug/L		87	52 - 100	4	15
2-Chlorophenol	20.0	16.6		ug/L		83	53 - 100	7	17
2-Methylnaphthalene	20.0	17.7		ug/L		89	53 - 100	4	15
2-Methylphenol	20.0	16.3		ug/L		82	51 - 100	7	16
2-Nitroaniline	20.0	19.8		ug/L		99	47 - 104	3	18
2-Nitrophenol	20.0	20.1	*+	ug/L		101	56 - 100	2	15
3,3'-Dichlorobenzidine	20.0	14.6		ug/L		73	42 - 100	5	15
3-Nitroaniline	20.0	18.3		ug/L		91	54 - 100	4	15

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-414522/3-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
4,6-Dinitro-2-methylphenol	40.0	34.2		ug/L		86	48 - 100	3	15	
4-Bromophenyl phenyl ether	20.0	18.0		ug/L		90	50 - 100	2	15	
4-Chloro-3-methylphenol	20.0	16.6		ug/L		83	47 - 105	5	18	
4-Chloroaniline	20.0	15.8		ug/L		79	48 - 100	6	15	
4-Chlorophenyl phenyl ether	20.0	16.8		ug/L		84	52 - 100	1	16	
4-Nitroaniline	20.0	17.6		ug/L		88	54 - 100	4	16	
4-Nitrophenol	40.0	36.0		ug/L		90	37 - 120	0	18	
Acenaphthene	20.0	16.8		ug/L		84	51 - 100	1	15	
Acenaphthylene	20.0	17.1		ug/L		86	54 - 100	1	16	
Anthracene	20.0	17.2		ug/L		86	54 - 100	1	15	
Benzo[a]anthracene	20.0	17.8		ug/L		89	52 - 100	3	15	
Benzo[a]pyrene	20.0	17.6		ug/L		88	52 - 100	2	16	
Benzo[b]fluoranthene	20.0	18.8		ug/L		94	50 - 100	4	15	
Benzo[g,h,i]perylene	20.0	17.4		ug/L		87	53 - 100	5	15	
Benzo[k]fluoranthene	20.0	17.1		ug/L		86	49 - 100	9	20	
Benzoic acid	20.0	18.2		ug/L		91	31 - 122	3	32	
Benzyl alcohol	20.0	15.9		ug/L		80	33 - 107	6	35	
Bis(2-chloroethoxy)methane	20.0	15.8		ug/L		79	49 - 100	3	15	
Bis(2-chloroethyl)ether	20.0	15.7		ug/L		79	46 - 100	9	17	
Bis(2-ethylhexyl) phthalate	20.0	21.4	*+	ug/L		107	52 - 101	2	15	
bis(chloroisopropyl) ether	20.0	15.4		ug/L		77	29 - 102	8	16	
Butyl benzyl phthalate	20.0	21.2	*+	ug/L		106	52 - 100	3	15	
Chrysene	20.0	16.6		ug/L		83	51 - 100	1	15	
Dibenz(a,h)anthracene	20.0	18.4		ug/L		92	52 - 101	4	15	
Dibenzofuran	20.0	16.3		ug/L		82	53 - 100	3	16	
Diethyl phthalate	20.0	16.1		ug/L		80	52 - 100	2	15	
Dimethyl phthalate	20.0	16.5		ug/L		82	55 - 100	3	15	
Di-n-butyl phthalate	20.0	18.1		ug/L		90	57 - 100	1	15	
Di-n-octyl phthalate	20.0	21.0	*+	ug/L		105	41 - 100	6	17	
Fluoranthene	20.0	16.1		ug/L		81	56 - 100	2	15	
Fluorene	20.0	16.7		ug/L		84	53 - 100	3	17	
Hexachlorobenzene	20.0	16.6		ug/L		83	46 - 100	0	15	
Hexachlorobutadiene	20.0	16.9		ug/L		84	42 - 101	3	15	
Hexachlorocyclopentadiene	20.0	20.7	*+	ug/L		104	38 - 102	3	16	
Hexachloroethane	20.0	16.6		ug/L		83	46 - 100	6	16	
Indeno[1,2,3-cd]pyrene	20.0	17.7		ug/L		89	54 - 100	5	16	
Isophorone	20.0	16.4		ug/L		82	50 - 100	6	15	
Methylphenol, 3 & 4	20.0	15.5		ug/L		78	51 - 100	7	18	
Nitrobenzene	20.0	19.5		ug/L		97	47 - 100	0	16	
N-Nitrosodi-n-propylamine	20.0	16.6		ug/L		83	43 - 103	8	16	
N-Nitrosodiphenylamine	20.0	18.5		ug/L		92	53 - 100	1	16	
Phenanthrene	20.0	16.8		ug/L		84	53 - 100	4	15	
Phenol	20.0	15.8		ug/L		79	49 - 100	8	17	
Pyrene	20.0	19.1		ug/L		95	53 - 100	1	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	86		23 - 128
2-Fluorobiphenyl	84		20 - 105

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-414522/3-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 414522**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	83		20 - 105
Nitrobenzene-d5 (Surr)	97		20 - 107
Phenol-d5 (Surr)	78		20 - 106
Terphenyl-d14 (Surr)	89		22 - 120

**Lab Sample ID: MB 180-414851/1-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/12/22 13:18	10/14/22 13:18	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/12/22 13:18	10/14/22 13:18	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/12/22 13:18	10/14/22 13:18	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/12/22 13:18	10/14/22 13:18	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/12/22 13:18	10/14/22 13:18	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/12/22 13:18	10/14/22 13:18	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/12/22 13:18	10/14/22 13:18	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/12/22 13:18	10/14/22 13:18	1
Acenaphthene	ND		0.19	0.065	ug/L		10/12/22 13:18	10/14/22 13:18	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/12/22 13:18	10/14/22 13:18	1
Anthracene	ND		0.19	0.049	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzoic acid	ND		5.0	0.92	ug/L		10/12/22 13:18	10/14/22 13:18	1

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-414851/1-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND		1.0	0.16	ug/L		10/12/22 13:18	10/14/22 13:18	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/12/22 13:18	10/14/22 13:18	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/12/22 13:18	10/14/22 13:18	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/12/22 13:18	10/14/22 13:18	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/12/22 13:18	10/14/22 13:18	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/12/22 13:18	10/14/22 13:18	1
Chrysene	ND		0.19	0.081	ug/L		10/12/22 13:18	10/14/22 13:18	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/12/22 13:18	10/14/22 13:18	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/12/22 13:18	10/14/22 13:18	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/12/22 13:18	10/14/22 13:18	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/12/22 13:18	10/14/22 13:18	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/12/22 13:18	10/14/22 13:18	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/12/22 13:18	10/14/22 13:18	1
Fluoranthene	ND		0.19	0.060	ug/L		10/12/22 13:18	10/14/22 13:18	1
Fluorene	ND		0.19	0.069	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/12/22 13:18	10/14/22 13:18	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/12/22 13:18	10/14/22 13:18	1
Isophorone	ND		1.0	0.19	ug/L		10/12/22 13:18	10/14/22 13:18	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/12/22 13:18	10/14/22 13:18	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/12/22 13:18	10/14/22 13:18	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/12/22 13:18	10/14/22 13:18	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/12/22 13:18	10/14/22 13:18	1
Phenanthrene	ND		0.19	0.055	ug/L		10/12/22 13:18	10/14/22 13:18	1
Phenol	ND		1.0	0.49	ug/L		10/12/22 13:18	10/14/22 13:18	1
Pyrene	ND		0.19	0.054	ug/L		10/12/22 13:18	10/14/22 13:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		23 - 128	10/12/22 13:18	10/14/22 13:18	1
2-Fluorobiphenyl	90		20 - 105	10/12/22 13:18	10/14/22 13:18	1
2-Fluorophenol (Surr)	93		20 - 105	10/12/22 13:18	10/14/22 13:18	1
Nitrobenzene-d5 (Surr)	104		20 - 107	10/12/22 13:18	10/14/22 13:18	1
Phenol-d5 (Surr)	88		20 - 106	10/12/22 13:18	10/14/22 13:18	1
Terphenyl-d14 (Surr)	69		22 - 120	10/12/22 13:18	10/14/22 13:18	1

**Lab Sample ID: LCS 180-414851/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	15.3		ug/L		77	51 - 100
1,2-Dichlorobenzene	20.0	15.5		ug/L		77	51 - 100
1,3-Dichlorobenzene	20.0	15.7		ug/L		78	51 - 100
1,4-Dichlorobenzene	20.0	15.6		ug/L		78	52 - 100
1-Methylnaphthalene	20.0	15.2		ug/L		76	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	15.5		ug/L		78	50 - 100

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-414851/2-A**

**Matrix: Water**

**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 414851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	20.0	16.9		ug/L		85	55 - 100
2,4,6-Trichlorophenol	20.0	17.3		ug/L		87	54 - 100
2,4-Dichlorophenol	20.0	16.0		ug/L		80	55 - 100
2,4-Dimethylphenol	20.0	16.3		ug/L		81	51 - 100
2,4-Dinitrophenol	40.0	28.3		ug/L		71	32 - 100
2,4-Dinitrotoluene	20.0	17.3		ug/L		86	56 - 100
2,6-Dinitrotoluene	20.0	17.2		ug/L		86	56 - 101
2-Chloronaphthalene	20.0	16.4		ug/L		82	52 - 100
2-Chlorophenol	20.0	16.0		ug/L		80	53 - 100
2-Methylnaphthalene	20.0	17.3		ug/L		86	53 - 100
2-Methylphenol	20.0	15.7		ug/L		79	51 - 100
2-Nitroaniline	20.0	18.7		ug/L		93	47 - 104
2-Nitrophenol	20.0	18.9		ug/L		94	56 - 100
3,3'-Dichlorobenzidine	20.0	14.5		ug/L		72	42 - 100
3-Nitroaniline	20.0	17.3		ug/L		87	54 - 100
4,6-Dinitro-2-methylphenol	40.0	32.7		ug/L		82	48 - 100
4-Bromophenyl phenyl ether	20.0	16.7		ug/L		83	50 - 100
4-Chloro-3-methylphenol	20.0	15.9		ug/L		79	47 - 105
4-Chloroaniline	20.0	15.0		ug/L		75	48 - 100
4-Chlorophenyl phenyl ether	20.0	15.7		ug/L		79	52 - 100
4-Nitroaniline	20.0	17.0		ug/L		85	54 - 100
4-Nitrophenol	40.0	33.2		ug/L		83	37 - 120
Acenaphthene	20.0	15.6		ug/L		78	51 - 100
Acenaphthylene	20.0	16.2		ug/L		81	54 - 100
Anthracene	20.0	16.3		ug/L		82	54 - 100
Benzo[a]anthracene	20.0	16.8		ug/L		84	52 - 100
Benzo[a]pyrene	20.0	16.4		ug/L		82	52 - 100
Benzo[b]fluoranthene	20.0	17.6		ug/L		88	50 - 100
Benzo[g,h,i]perylene	20.0	16.1		ug/L		81	53 - 100
Benzo[k]fluoranthene	20.0	16.3		ug/L		82	49 - 100
Benzoic acid	20.0	17.4		ug/L		87	31 - 122
Benzyl alcohol	20.0	15.6		ug/L		78	33 - 107
Bis(2-chloroethoxy)methane	20.0	14.8		ug/L		74	49 - 100
Bis(2-chloroethyl)ether	20.0	15.2		ug/L		76	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	20.2		ug/L		101	52 - 101
bis(chloroisopropyl) ether	20.0	15.2		ug/L		76	29 - 102
Butyl benzyl phthalate	20.0	19.7		ug/L		99	52 - 100
Chrysene	20.0	15.5		ug/L		78	51 - 100
Dibenz(a,h)anthracene	20.0	16.6		ug/L		83	52 - 101
Dibenzofuran	20.0	15.3		ug/L		76	53 - 100
Diethyl phthalate	20.0	15.3		ug/L		77	52 - 100
Dimethyl phthalate	20.0	15.4		ug/L		77	55 - 100
Di-n-butyl phthalate	20.0	16.9		ug/L		85	57 - 100
Di-n-octyl phthalate	20.0	19.7		ug/L		98	41 - 100
Fluoranthene	20.0	15.8		ug/L		79	56 - 100
Fluorene	20.0	15.7		ug/L		78	53 - 100
Hexachlorobenzene	20.0	15.8		ug/L		79	46 - 100
Hexachlorobutadiene	20.0	15.7		ug/L		79	42 - 101
Hexachlorocyclopentadiene	20.0	19.6		ug/L		98	38 - 102

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-414851/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	20.0	16.1		ug/L		80	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	16.7		ug/L		83	54 - 100
Isophorone	20.0	16.0		ug/L		80	50 - 100
Methylphenol, 3 & 4	20.0	15.2		ug/L		76	51 - 100
Nitrobenzene	20.0	18.3		ug/L		91	47 - 100
N-Nitrosodi-n-propylamine	20.0	16.5		ug/L		83	43 - 103
N-Nitrosodiphenylamine	20.0	17.8		ug/L		89	53 - 100
Phenanthrene	20.0	16.1		ug/L		81	53 - 100
Phenol	20.0	15.7		ug/L		78	49 - 100
Pyrene	20.0	18.0		ug/L		90	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		23 - 128
2-Fluorobiphenyl	79		20 - 105
2-Fluorophenol (Surr)	81		20 - 105
Nitrobenzene-d5 (Surr)	91		20 - 107
Phenol-d5 (Surr)	79		20 - 106
Terphenyl-d14 (Surr)	84		22 - 120

**Lab Sample ID: 180-145689-2 MS**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: SUPE-W-06C-100522**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	ND	F1	20.8	6.59	F1	ug/L		32	51 - 100
1,2-Dichlorobenzene	ND	F1	20.8	5.84	F1	ug/L		28	51 - 100
1,3-Dichlorobenzene	ND	F1	20.8	5.19	F1	ug/L		25	51 - 100
1,4-Dichlorobenzene	ND	F1	20.8	5.42	F1	ug/L		26	52 - 100
1-Methylnaphthalene	ND	F1	20.8	8.53	F1	ug/L		41	53 - 100
2,3,4,6-Tetrachlorophenol	ND	F1	20.8	9.42	F1	ug/L		45	50 - 100
2,4,5-Trichlorophenol	ND	F1	20.8	10.3	F1	ug/L		49	55 - 100
2,4,6-Trichlorophenol	ND	F1	20.8	10.4	F1	ug/L		50	54 - 100
2,4-Dichlorophenol	ND	F1	20.8	9.73	F1	ug/L		47	55 - 100
2,4-Dimethylphenol	ND	F1	20.8	6.44	F1	ug/L		31	51 - 100
2,4-Dinitrophenol	ND	F1	41.7	12.0	F1	ug/L		29	32 - 100
2,4-Dinitrotoluene	ND	F1	20.8	10.9	F1	ug/L		52	56 - 100
2,6-Dinitrotoluene	ND		20.8	12.7		ug/L		61	56 - 101
2-Chloronaphthalene	0.077	J F1	20.8	9.24	F1	ug/L		44	52 - 100
2-Chlorophenol	ND	F1	20.8	9.21	F1	ug/L		44	53 - 100
2-Methylnaphthalene	0.067	J F1	20.8	9.18	F1	ug/L		44	53 - 100
2-Methylphenol	ND	F1	20.8	9.24	F1	ug/L		44	51 - 100
2-Nitroaniline	ND		20.8	12.3		ug/L		59	47 - 104
2-Nitrophenol	ND	F1	20.8	11.4	F1	ug/L		55	56 - 100
3,3'-Dichlorobenzidine	ND	F1	20.8	3.73	F1	ug/L		18	42 - 100
3-Nitroaniline	ND	F1	20.8	10.1	F1	ug/L		48	54 - 100
4,6-Dinitro-2-methylphenol	ND	F1	41.7	14.2	F1	ug/L		34	48 - 100
4-Bromophenyl phenyl ether	ND		20.8	10.5		ug/L		50	50 - 100
4-Chloro-3-methylphenol	ND		20.8	10.3		ug/L		49	47 - 105

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 180-145689-2 MS**

**Matrix: Water**

**Analysis Batch: 415129**

**Client Sample ID: SUPE-W-06C-100522**

**Prep Type: Total/NA**

**Prep Batch: 414851**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
4-Chloroaniline	ND	F1	20.8	7.03	F1	ug/L		34	48 - 100
4-Chlorophenyl phenyl ether	ND	F1	20.8	9.25	F1	ug/L		44	52 - 100
4-Nitroaniline	ND	F1	20.8	10.3	F1	ug/L		49	54 - 100
4-Nitrophenol	ND		41.7	21.4		ug/L		51	37 - 120
Acenaphthene	0.073	J F1	20.8	9.38	F1	ug/L		45	51 - 100
Acenaphthylene	ND	F1	20.8	9.40	F1	ug/L		45	54 - 100
Anthracene	ND	F1	20.8	9.09	F1	ug/L		44	54 - 100
Benzo[a]anthracene	ND		20.8	11.0		ug/L		53	52 - 100
Benzo[a]pyrene	ND	F1	20.8	9.11	F1	ug/L		44	52 - 100
Benzo[b]fluoranthene	ND	F1	20.8	9.56	F1	ug/L		46	50 - 100
Benzo[g,h,i]perylene	ND		20.8	13.4		ug/L		64	53 - 100
Benzo[k]fluoranthene	ND	F1	20.8	8.69	F1	ug/L		42	49 - 100
Benzoic acid	1.8	J	20.8	13.5		ug/L		56	31 - 122
Benzyl alcohol	1.5		20.8	11.6		ug/L		48	33 - 107
Bis(2-chloroethoxy)methane	ND	F1	20.8	8.86	F1	ug/L		43	49 - 100
Bis(2-chloroethyl)ether	ND	F1	20.8	9.09	F1	ug/L		44	46 - 100
Bis(2-ethylhexyl) phthalate	ND		20.8	16.3		ug/L		78	52 - 101
bis(chloroisopropyl) ether	ND		20.8	8.62		ug/L		41	29 - 102
Butyl benzyl phthalate	1.3		20.8	14.9		ug/L		65	52 - 100
Chrysene	ND	F1	20.8	9.24	F1	ug/L		44	51 - 100
Dibenz(a,h)anthracene	ND		20.8	13.2		ug/L		63	52 - 101
Dibenzofuran	ND	F1	20.8	9.22	F1	ug/L		44	53 - 100
Diethyl phthalate	ND	F1	20.8	9.81	F1	ug/L		47	52 - 100
Dimethyl phthalate	ND	F1	20.8	10.2	F1	ug/L		49	55 - 100
Di-n-butyl phthalate	2.1	F1	20.8	11.7	F1	ug/L		46	57 - 100
Di-n-octyl phthalate	ND		20.8	12.2		ug/L		58	41 - 100
Fluoranthene	0.066	J F1	20.8	8.08	F1	ug/L		38	56 - 100
Fluorene	ND	F1	20.8	9.60	F1	ug/L		46	53 - 100
Hexachlorobenzene	ND	F1	20.8	9.30	F1	ug/L		45	46 - 100
Hexachlorobutadiene	ND	F1	20.8	5.60	F1	ug/L		27	42 - 101
Hexachlorocyclopentadiene	ND	F1	20.8	1.43	F1	ug/L		7	38 - 102
Hexachloroethane	ND	F1	20.8	4.81	F1	ug/L		23	46 - 100
Indeno[1,2,3-cd]pyrene	ND		20.8	12.8		ug/L		61	54 - 100
Isophorone	ND	F1	20.8	9.94	F1	ug/L		48	50 - 100
Methylphenol, 3 & 4	ND	F1	20.8	9.52	F1	ug/L		46	51 - 100
Nitrobenzene	ND		20.8	11.0		ug/L		53	47 - 100
N-Nitrosodi-n-propylamine	ND		20.8	9.85		ug/L		47	43 - 103
N-Nitrosodiphenylamine	ND	F1	20.8	9.27	F1	ug/L		45	53 - 100
Phenanthrene	0.34	F1	20.8	10.3	F1	ug/L		48	53 - 100
Phenol	ND	F1	20.8	9.11	F1	ug/L		44	49 - 100
Pyrene	0.056	J	20.8	11.6		ug/L		56	53 - 100
	<b>MS MS</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
2,4,6-Tribromophenol (Surr)	74		23 - 128						
2-Fluorobiphenyl	57		20 - 105						
2-Fluorophenol (Surr)	59		20 - 105						
Nitrobenzene-d5 (Surr)	75		20 - 107						
Phenol-d5 (Surr)	65		20 - 106						

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 180-145689-2 MS**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: SUPE-W-06C-100522**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	83		22 - 120

**Lab Sample ID: 180-145689-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: SUPE-W-06C-100522**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
1,2,4-Trichlorobenzene	ND	F1	20.8	6.64	F1	ug/L		32	51 - 100	1	15
1,2-Dichlorobenzene	ND	F1	20.8	6.05	F1	ug/L		29	51 - 100	3	16
1,3-Dichlorobenzene	ND	F1	20.8	5.58	F1	ug/L		27	51 - 100	7	15
1,4-Dichlorobenzene	ND	F1	20.8	5.79	F1	ug/L		28	52 - 100	7	15
1-Methylnaphthalene	ND	F1	20.8	8.62	F1	ug/L		41	53 - 100	1	15
2,3,4,6-Tetrachlorophenol	ND	F1	20.8	9.72	F1	ug/L		47	50 - 100	3	21
2,4,5-Trichlorophenol	ND	F1	20.8	10.8	F1	ug/L		52	55 - 100	5	18
2,4,6-Trichlorophenol	ND	F1	20.8	10.9	F1	ug/L		52	54 - 100	4	16
2,4-Dichlorophenol	ND	F1	20.8	9.75	F1	ug/L		47	55 - 100	0	15
2,4-Dimethylphenol	ND	F1	20.8	7.00	F1	ug/L		34	51 - 100	8	16
2,4-Dinitrophenol	ND	F1	41.7	13.5		ug/L		33	32 - 100	12	19
2,4-Dinitrotoluene	ND	F1	20.8	11.5	F1	ug/L		55	56 - 100	5	16
2,6-Dinitrotoluene	ND		20.8	13.8		ug/L		66	56 - 101	8	16
2-Chloronaphthalene	0.077	J F1	20.8	9.67	F1	ug/L		46	52 - 100	5	15
2-Chlorophenol	ND	F1	20.8	9.59	F1	ug/L		46	53 - 100	4	17
2-Methylnaphthalene	0.067	J F1	20.8	9.36	F1	ug/L		45	53 - 100	2	15
2-Methylphenol	ND	F1	20.8	9.79	F1	ug/L		47	51 - 100	6	16
2-Nitroaniline	ND		20.8	12.1		ug/L		58	47 - 104	1	18
2-Nitrophenol	ND	F1	20.8	11.4	F1	ug/L		55	56 - 100	0	15
3,3'-Dichlorobenzidine	ND	F1	20.8	3.65	F1	ug/L		17	42 - 100	2	15
3-Nitroaniline	ND	F1	20.8	9.84	F1	ug/L		47	54 - 100	3	15
4,6-Dinitro-2-methylphenol	ND	F1	41.7	15.5	F1	ug/L		37	48 - 100	9	15
4-Bromophenyl phenyl ether	ND		20.8	10.7		ug/L		51	50 - 100	2	15
4-Chloro-3-methylphenol	ND		20.8	10.2		ug/L		49	47 - 105	1	18
4-Chloroaniline	ND	F1	20.8	7.27	F1	ug/L		35	48 - 100	3	15
4-Chlorophenyl phenyl ether	ND	F1	20.8	9.98	F1	ug/L		48	52 - 100	8	16
4-Nitroaniline	ND	F1	20.8	10.5	F1	ug/L		50	54 - 100	2	16
4-Nitrophenol	ND		41.7	21.8		ug/L		52	37 - 120	2	18
Acenaphthene	0.073	J F1	20.8	9.78	F1	ug/L		47	51 - 100	4	15
Acenaphthylene	ND	F1	20.8	9.79	F1	ug/L		47	54 - 100	4	16
Anthracene	ND	F1	20.8	9.82	F1	ug/L		47	54 - 100	8	15
Benzo[a]anthracene	ND		20.8	11.2		ug/L		54	52 - 100	2	15
Benzo[a]pyrene	ND	F1	20.8	9.53	F1	ug/L		46	52 - 100	5	16
Benzo[b]fluoranthene	ND	F1	20.8	10.1	F1	ug/L		48	50 - 100	5	15
Benzo[g,h,i]perylene	ND		20.8	14.1		ug/L		68	53 - 100	5	15
Benzo[k]fluoranthene	ND	F1	20.8	8.68	F1	ug/L		42	49 - 100	0	20
Benzoic acid	1.8	J	20.8	13.3		ug/L		55	31 - 122	1	32
Benzyl alcohol	1.5		20.8	11.4		ug/L		47	33 - 107	2	35
Bis(2-chloroethoxy)methane	ND	F1	20.8	9.29	F1	ug/L		45	49 - 100	5	15
Bis(2-chloroethyl)ether	ND	F1	20.8	9.39	F1	ug/L		45	46 - 100	3	17
Bis(2-ethylhexyl) phthalate	ND		20.8	17.2		ug/L		83	52 - 101	6	15

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# QC Sample Results

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

Job ID: 180-145689-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 180-145689-2 MSD**

**Client Sample ID: SUPE-W-06C-100522**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 415129**

**Prep Batch: 414851**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
bis(chloroisopropyl) ether	ND		20.8	9.12		ug/L		44	29 - 102	6	16	
Butyl benzyl phthalate	1.3		20.8	15.2		ug/L		67	52 - 100	2	15	
Chrysene	ND	F1	20.8	9.75	F1	ug/L		47	51 - 100	5	15	
Dibenz(a,h)anthracene	ND		20.8	14.3		ug/L		69	52 - 101	9	15	
Dibenzofuran	ND	F1	20.8	9.51	F1	ug/L		46	53 - 100	3	16	
Diethyl phthalate	ND	F1	20.8	10.7	F1	ug/L		51	52 - 100	8	15	
Dimethyl phthalate	ND	F1	20.8	10.8	F1	ug/L		52	55 - 100	6	15	
Di-n-butyl phthalate	2.1	F1	20.8	12.5	F1	ug/L		50	57 - 100	7	15	
Di-n-octyl phthalate	ND		20.8	12.0		ug/L		58	41 - 100	2	17	
Fluoranthene	0.066	J F1	20.8	8.39	F1	ug/L		40	56 - 100	4	15	
Fluorene	ND	F1	20.8	10.2	F1	ug/L		49	53 - 100	6	17	
Hexachlorobenzene	ND	F1	20.8	9.62		ug/L		46	46 - 100	3	15	
Hexachlorobutadiene	ND	F1	20.8	5.97	F1	ug/L		29	42 - 101	6	15	
Hexachlorocyclopentadiene	ND	F1	20.8	1.55	F1	ug/L		7	38 - 102	8	16	
Hexachloroethane	ND	F1	20.8	5.16	F1	ug/L		25	46 - 100	7	16	
Indeno[1,2,3-cd]pyrene	ND		20.8	13.9		ug/L		67	54 - 100	8	16	
Isophorone	ND	F1	20.8	10.6		ug/L		51	50 - 100	6	15	
Methylphenol, 3 & 4	ND	F1	20.8	9.87	F1	ug/L		47	51 - 100	4	18	
Nitrobenzene	ND		20.8	11.0		ug/L		53	47 - 100	0	16	
N-Nitrosodi-n-propylamine	ND		20.8	10.2		ug/L		49	43 - 103	3	16	
N-Nitrosodiphenylamine	ND	F1	20.8	9.42	F1	ug/L		45	53 - 100	2	16	
Phenanthrene	0.34	F1	20.8	10.8	F1	ug/L		50	53 - 100	5	15	
Phenol	ND	F1	20.8	9.24	F1	ug/L		44	49 - 100	1	17	
Pyrene	0.056	J	20.8	12.3		ug/L		59	53 - 100	5	15	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	81		23 - 128
2-Fluorobiphenyl	60		20 - 105
2-Fluorophenol (Surr)	63		20 - 105
Nitrobenzene-d5 (Surr)	77		20 - 107
Phenol-d5 (Surr)	66		20 - 106
Terphenyl-d14 (Surr)	84		22 - 120

# QC Association Summary

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

Job ID: 180-145689-1

## GC/MS VOA

### Analysis Batch: 644817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-4	SUPE-W-30C-100422	Total/NA	Water	8260C	
180-145689-5	SUPE-EB1-100422	Total/NA	Water	8260C	
MB 480-644817/10	Method Blank	Total/NA	Water	8260C	
LCS 480-644817/58	Lab Control Sample	Total/NA	Water	8260C	

### Analysis Batch: 645602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-1	SUPE-W-06A-100522	Total/NA	Water	8260C	
180-145689-2	SUPE-W-06C-100522	Total/NA	Water	8260C	
180-145689-3	SUPE-W-12A-100522	Total/NA	Water	8260C	
MB 480-645602/7	Method Blank	Total/NA	Water	8260C	
LCS 480-645602/5	Lab Control Sample	Total/NA	Water	8260C	

### Analysis Batch: 645737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-645737/7	Method Blank	Total/NA	Water	8260C	
LCS 480-645737/5	Lab Control Sample	Total/NA	Water	8260C	
180-145689-2 MS	SUPE-W-06C-100522	Total/NA	Water	8260C	
180-145689-2 MSD	SUPE-W-06C-100522	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 414522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-4	SUPE-W-30C-100422	Total/NA	Water	3520C	
180-145689-5	SUPE-EB1-100422	Total/NA	Water	3520C	
MB 180-414522/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-414522/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 180-414522/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

### Prep Batch: 414851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-1	SUPE-W-06A-100522	Total/NA	Water	3520C	
180-145689-2	SUPE-W-06C-100522	Total/NA	Water	3520C	
180-145689-3	SUPE-W-12A-100522	Total/NA	Water	3520C	
MB 180-414851/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-414851/2-A	Lab Control Sample	Total/NA	Water	3520C	
180-145689-2 MS	SUPE-W-06C-100522	Total/NA	Water	3520C	
180-145689-2 MSD	SUPE-W-06C-100522	Total/NA	Water	3520C	

### Analysis Batch: 414968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-4	SUPE-W-30C-100422	Total/NA	Water	EPA 8270E LL	414522
180-145689-5	SUPE-EB1-100422	Total/NA	Water	EPA 8270E LL	414522
MB 180-414522/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	414522

### Analysis Batch: 415129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-2	SUPE-W-06C-100522	Total/NA	Water	EPA 8270E LL	414851
180-145689-3	SUPE-W-12A-100522	Total/NA	Water	EPA 8270E LL	414851
MB 180-414851/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	414851

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# QC Association Summary

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

Job ID: 180-145689-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 415129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-414522/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	414522
LCS 180-414851/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	414851
LCSD 180-414522/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8270E LL	414522
180-145689-2 MS	SUPE-W-06C-100522	Total/NA	Water	EPA 8270E LL	414851
180-145689-2 MSD	SUPE-W-06C-100522	Total/NA	Water	EPA 8270E LL	414851

### Analysis Batch: 415201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-1	SUPE-W-06A-100522	Total/NA	Water	EPA 8270E LL	414851

### Prep Batch: 644801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-1	SUPE-W-06A-100522	Total/NA	Water	3510C	
180-145689-2	SUPE-W-06C-100522	Total/NA	Water	3510C	
180-145689-3	SUPE-W-12A-100522	Total/NA	Water	3510C	
180-145689-4	SUPE-W-30C-100422	Total/NA	Water	3510C	
180-145689-5	SUPE-EB1-100422	Total/NA	Water	3510C	
MB 480-644801/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-644801/2-A	Lab Control Sample	Total/NA	Water	3510C	
180-145689-2 MS	SUPE-W-06C-100522	Total/NA	Water	3510C	
180-145689-2 MSD	SUPE-W-06C-100522	Total/NA	Water	3510C	

### Analysis Batch: 645323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145689-1	SUPE-W-06A-100522	Total/NA	Water	8270D LL	644801
180-145689-2	SUPE-W-06C-100522	Total/NA	Water	8270D LL	644801
180-145689-3	SUPE-W-12A-100522	Total/NA	Water	8270D LL	644801
180-145689-4	SUPE-W-30C-100422	Total/NA	Water	8270D LL	644801
180-145689-5	SUPE-EB1-100422	Total/NA	Water	8270D LL	644801
MB 480-644801/1-A	Method Blank	Total/NA	Water	8270D LL	644801
LCS 480-644801/2-A	Lab Control Sample	Total/NA	Water	8270D LL	644801
180-145689-2 MS	SUPE-W-06C-100522	Total/NA	Water	8270D LL	644801
180-145689-2 MSD	SUPE-W-06C-100522	Total/NA	Water	8270D LL	644801

**Chain of Custody Record** TestAmerica Duluth SC

3019 Venture Way Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-2425

**Client Information**  
 Client Contact: Marie Ferrick  
 Phone: 412-279-3363  
 Company: Field & Technical Services

**Address:** 200 Third Avenue  
 City: Carnegie  
 State, Zip: PA 15106  
 Phone: 412-279-3363  
 Email: mfernick.2006@f-ts.com  
 Project Name: Superior 202225A Sampling.001  
 Site: Superior

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Minerals, Swabs, Overfills, Other)	Field Filtered Sample (Yes or No)	Retention (MS/MP, Yes or No)	Analysis Requested	Carrier Tracking No(s)	Lab Pk.	E-Mail:
SUPE-W-06A-100522	10/15/22	0905	G	W	X	X	8260C-V0A+naphtha (Buffalo)			
SUPE-MS/MSD-100522	10/15/22	1059	G	W	X	X	8270DLL-RCP (Buffalo) (CL)			
SUPE-W-06C-100522	10/15/22	1059	G	W	X	X				
SUPE-W-12A-100522	10/15/22	1300	G	W	X	X				
SUPE-W-30C-100422	10/14/22	1832	G	W	X	X				
SUPE-E81-100422	10/14/22	1910	G	W	X	X				

**Shipping & Technicals:**  
 Ref: Field & Technica Date: 05Oct22  
 Dep: Wgt: 48.50 LBS  
 SHIPPING: 0.00  
 SPECIAL: 0.00  
 HANDLING: 0.00  
 TOTAL: 0.00  
 DV: 0.00  
 Site: PRIORITY OVERNIGHT  
 TRC K: 4546 9365 8920

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

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

**Special Instructions/Notes:**  
 180-145689 Chain of Custody

**Relinquished by:** Marie Ferrick  
 Date/Time: 10/15/22, 1354  
 Company: FTS

**Relinquished by:** Shane Lindquist  
 Date/Time: 10/15/22, 1500  
 Company: FTS

**Relinquished by:** [Signature]  
 Date/Time: 10-7-22  
 Company: [Signature]

**Custody Seal No.:** 990  
 Cooler Temperature(s) °C and Other Remarks

**Eurofins Cedar Falls** *Buffalo*

3019 Venture Way  
Cedar Falls, IA 50613  
Phone (319) 277-2401 Fax (319) 277-2425

**TestAmerica Duluth SC**  
269



Environment Testing  
America

**Chain of Custody Record**

Client Information		Sampler	Lab PM:	Carrier Tracking No(s)	COC No:		
Client Contact: <b>Beizer East, Inc</b>		<b>Marie Ferrick</b>					
Company: <b>Field &amp; Technical Services</b>		Phone: <b>412-279-3363</b>	E-Mail:		Page of		
Address: <b>200 Third Ave</b>		Due Date Requested:			Job #:		
City: <b>Carnegie</b>		TAT Requested (days):					
State Zip: <b>PA 15106</b>		PO #:					
Phone: <b>412-279-3363</b>		WO #:					
Email: <b>mferrick.2006@f-t.com</b>		Project #:					
Project Name: <b>Superior 2022 2SA Sampling.001</b>		SSOW#:					
Site: <b>Superior</b>							
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Residue, Swab, Concentration, Other)	Field Filtered Sample (Yes or No)	Analysis Requested	Preservation Codes:
SUPE-W-06A-100522	10/15/22	0905	G	W			A - HCL M - Hexane N - None O - ASH2O2 P - Na2CO3 Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - HCl W - pH 4.5 X - EDTA Y - Other (specify)
SUPE - MS/MSD - 100522	10/15/22	1059	G	W			
SUPE - W-06C - 100522	10/15/22	1059	G	W			
SUPE - W-12A - 100522	10/15/22	1300	G	W			
SUPE - W-30C - 100422	10/14/22	1832	G	W			
SUPE - E81 - 100422	10/14/22	1910	G	W			
<p><b>Special Instructions/Note:</b></p> <p>8270D - SVOC (less negative Chicago) (250mL)</p>							
<p><b>Total Number of Containers</b></p>							
<p><b>Special Instructions/Note:</b></p>							

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab
<input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify)	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Archive For	Months
Empty Kit Relinquished by		Method of Shipment:	
Relinquished by: <b>Marie Ferrick</b>	Date/Time: <b>10/15/22 1354</b>	Company: <b>FTS</b>	Company: <b>FTS</b>
Relinquished by: <b>Shane Lindquist</b>	Date/Time: <b>10/15/22 1500</b>	Company: <b>FTS</b>	Company: <b>FTS</b>
Relinquished by:	Date/Time:	Company:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <b>990</b>	



ORIGIN ID:DKKA (716) 691-2600  
SAMPLE RECEIPT  
EUROFINS BUFFALO  
10 HAZELWOOD DR

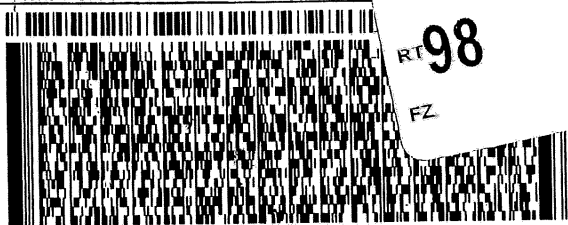
SHIP DATE: 06OCT22  
ACTWGT: 44.60 LB  
CAD: 846654/CAFE3616  
DIMS: 26x15x14 IN

AMHERST, NY 14228  
UNITED STATES US

BILL SENDER

TO **SAMPLE MGT.**  
**EUROFINS PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 983-7058  
REF: TA PITTSBURG



TRK# 5754 0127 9178  
0201

FRI - 07 OCT 10:30A  
PRIORITY OVERNIGHT

**NA AGCA**

15238  
PA-US PIT

Uncorrected temp 1.3 °C  
Thermometer ID 20  
SF 0.0 Initials Bl

T-WI-SR-001 effective 7/26/13



180-145689 Waybill

<b>Client Information</b>		Sampler: <u>Marie Ferrick</u>		Lab PM:	
Client Contact: <u>Beazer East, Inc</u>		Phone: <u>412-279-3363</u>		E-Mail:	
Company: <u>Field &amp; Technical Services</u>		Due Date Requested:		Carrier Tracking No(s)	
Address: <u>200 Third Avenue</u>		TAT Requested (days):		Analysis Requested	
City: <u>Carnegie</u>		PO #:		Preservation Codes:	
State, Zip: <u>PA 15106</u>		WO #:		A - HCL B - NaOH M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDTA Z - other (specify)	
Phone: <u>412-279-3363</u>		Project #: <u>OM-0556-22</u>		Other:	
Email: <u>mferick.2006@f-ts.com</u>		SSON#:		Special Instructions/Note:	
Project Name: <u>Superior 2022SA Sampling.001</u>		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site: <u>Superior</u>		Report Method (Yes or No)		Barcode	
Sample Identification		Sample Date		Sample Time	
SUPE-W-06A-100522		10/15/22		0905	
SUPE-MS/MSD-100522		10/15/22		1059	
SUPE-W-06C-100522		10/15/22		1059	
SUPE-W-12A-100522		10/15/22		1300	
SUPE-W-30C-100422		10/14/22		1832	
SUPE-E81-100422		10/14/22		1910	
Ref: Field & Technica		Date: 05Oct22		SHIPPING: 0.00	
Dep: 48.50 LBS		Hgt: 48.50 LBS		SPECIAL: 0.00	
DV: 0.00		TOTAL: 0.00		HANDLING: 0.00	
Sves: PRIORITY OVERNIGHT		TRCK: 4546 9365 8920		TOTAL: 0.00	
Possible Hazard Identification		Poison B <input type="checkbox"/>		Unknown <input type="checkbox"/>	
Deliverable Requested: I, II, III, IV, Other (specify)		Skin Irritant <input type="checkbox"/>		Radiological <input type="checkbox"/>	
Empty Kit Relinquished by: <u>Marie Ferrick</u>		Date: <u>10/15/22</u>		Time: <u>1354</u>	
Relinquished by: <u>Shane Lindquist</u>		Date/Time: <u>10/15/22 1354</u>		Company: <u>FTS</u>	
Relinquished by:		Date/Time: <u>10/15/22 1500</u>		Company: <u>FTS</u>	
Custody Seals Intact: <u>14 019 # 13CE</u>		Date/Time: <u>10/10/22 1630</u>		Company: <u>FTA</u>	
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-145689-1

**Login Number: 145689**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Abernathy, Eric L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
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.	N/A	
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.	N/A	





## ANALYTICAL REPORT

Eurofins Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-145919-1

Client Project/Site: Superior, WI Semiannual Groundwater

For:

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

Attn: Ms. Angie Gatchie



Authorized for release by:  
10/21/2022 2:55:21 PM

Shali Brown, Project Manager II  
(615)301-5031  
[Shali.Brown@et.eurofinsus.com](mailto:Shali.Brown@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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.

PA Lab ID: 02-00416



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# Case Narrative

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

Job ID: 180-145919-1

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## Job ID: 180-145919-1

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### Laboratory: Eurofins Pittsburgh

#### Narrative

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#### Job Narrative 180-145919-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/8/2022 12:51 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.7° C.

#### Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

The following samples were listed on the Chain of Custody (COC); however, no samples were received for VOA analysis:  
SUPE-W-18D-100622

#### GC/MS VOA

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

#### GC/MS Semi VOA

Method 8270E LL: The continuing calibration verification (CCV) associated with batch 180-415371 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: CCVIS 180-415371/3.

Method 8270E LL: The continuing calibration verification (CCV) analyzed in 180-415371 was outside the method criteria for the following analyte: Nitrobenzene-d5 (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: SUPE-W-30A-100622 and SUPE-W-10AR2-100622. Elevated reporting limits (RLs) are provided.

Method 8270E LL: The continuing calibration verification (CCV) analyzed in 180-415542 was outside the method criteria for the following analyte: Nitrobenzene-d5 (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E LL: The continuing calibration verification (CCV) associated with batch 180-415542 recovered above the upper control limit for 2,3,5,6-Tetrachlorophenol, 2-Nitroaniline, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Di-n-octyl phthalate 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: CCVIS 180-415542/3.

Method 8270D LL: The following samples were diluted due to the nature of the sample matrix: SUPE-W-30A-100622 and SUPE-W-10AR2-100622. Elevated reporting limits (RLs) are provided.

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

#### Organic Prep

Method 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: SUPE-W-12CR-100622, 180-145919-A-1 MS and 180-145919-A-1 MSD.

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

# Definitions/Glossary

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

Job ID: 180-145919-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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.
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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Accreditation/Certification Summary

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

Job ID: 180-145919-1

## Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998027800	08-31-23

## Laboratory: Eurofins Buffalo

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

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

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# Sample Summary

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

Job ID: 180-145919-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-145919-1	SUPE-W-12CR-100622	Water	10/06/22 09:50	10/08/22 12:51
180-145919-2	SUPE-W-30A-100622	Water	10/06/22 11:51	10/08/22 12:51
180-145919-3	SUPE-EB3-100622	Water	10/06/22 13:48	10/08/22 12:51
180-145919-4	SUPE-W-10AR2-100622	Water	10/06/22 13:48	10/08/22 12:51
180-145919-5	SUPE-W-18D-100622	Water	10/06/22 15:24	10/08/22 12:51
180-145919-6	TRIP BLANK	Water	10/06/22 00:00	10/08/22 12:51

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# Method Summary

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

Job ID: 180-145919-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET BUF
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET PIT
5030C	Purge and Trap	SW846	EET BUF

**Protocol References:**

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

**Laboratory References:**

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

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-12CR-100622**

**Lab Sample ID: 180-145919-1**

Date Collected: 10/06/22 09:50

Matrix: Water

Date Received: 10/08/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645516	10/14/22 16:03	CB	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			500 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/13/22 23:11	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415242	10/17/22 21:33	VVP	EET PIT
Instrument ID: CH731										

**Client Sample ID: SUPE-W-30A-100622**

**Lab Sample ID: 180-145919-2**

Date Collected: 10/06/22 11:51

Matrix: Water

Date Received: 10/08/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645516	10/14/22 16:26	CB	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			930 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	645323	10/13/22 23:39	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415371	10/18/22 12:13	VVP	EET PIT
Instrument ID: CH733										
Total/NA	Prep	3520C	DL		230 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL	DL	2	1 mL	1 mL	415542	10/19/22 13:06	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-EB3-100622**

**Lab Sample ID: 180-145919-3**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645516	10/14/22 16:49	CB	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			940 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/14/22 00:06	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415371	10/18/22 12:35	VVP	EET PIT
Instrument ID: CH733										



# Lab Chronicle

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-10AR2-100622**

**Lab Sample ID: 180-145919-4**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645516	10/14/22 17:12	CB	EET BUF
Instrument ID: HP5973N										
Total/NA	Prep	3510C			950 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	645323	10/14/22 00:34	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			220 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415371	10/18/22 12:56	VVP	EET PIT
Instrument ID: CH733										
Total/NA	Prep	3520C	DL		220 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL	DL	5	1 mL	1 mL	415542	10/19/22 13:27	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-W-18D-100622**

**Lab Sample ID: 180-145919-5**

Date Collected: 10/06/22 15:24

Matrix: Water

Date Received: 10/08/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			940 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/14/22 01:02	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			250 mL	250 uL	415011	10/13/22 14:30	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415371	10/18/22 13:18	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 180-145919-6**

Date Collected: 10/06/22 00:00

Matrix: Water

Date Received: 10/08/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645516	10/14/22 17:35	CB	EET BUF
Instrument ID: HP5973N										

**Laboratory References:**

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

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

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

Job ID: 180-145919-1

## Analyst References:

Lab: EET BUF

Batch Type: Prep

JMP = Jacob Pollock

Batch Type: Analysis

CB = Christa Baker

RJS = Robert Schick

Lab: EET PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

VVP = Vincent Piccolino

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-12CR-100622**

**Lab Sample ID: 180-145919-1**

Date Collected: 10/06/22 09:50

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 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			10/14/22 16:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/14/22 16:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/14/22 16:03	1
Benzene	ND		1.0	0.41	ug/L			10/14/22 16:03	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/22 16:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/22 16:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/22 16:03	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/14/22 16:03	1
Naphthalene	ND		1.0	0.43	ug/L			10/14/22 16:03	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/14/22 16:03	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/22 16:03	1
o-Xylene	ND		1.0	0.76	ug/L			10/14/22 16:03	1
Styrene	ND		1.0	0.73	ug/L			10/14/22 16:03	1
Toluene	ND		1.0	0.51	ug/L			10/14/22 16:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/22 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		10/14/22 16:03	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/14/22 16:03	1
Dibromofluoromethane (Surr)	95		75 - 123		10/14/22 16:03	1
Toluene-d8 (Surr)	100		80 - 120		10/14/22 16:03	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		2.0	0.68	ug/L		10/12/22 09:00	10/13/22 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	103		24 - 146	10/12/22 09:00	10/13/22 23:11	1
2-Fluorobiphenyl	100		37 - 120	10/12/22 09:00	10/13/22 23:11	1
2-Fluorophenol (Surr)	68		10 - 120	10/12/22 09:00	10/13/22 23:11	1
Nitrobenzene-d5 (Surr)	75		26 - 120	10/12/22 09:00	10/13/22 23:11	1
Phenol-d5 (Surr)	52		11 - 120	10/12/22 09:00	10/13/22 23:11	1
p-Terphenyl-d14	101		64 - 127	10/12/22 09:00	10/13/22 23:11	1

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/13/22 14:30	10/17/22 21:33	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/13/22 14:30	10/17/22 21:33	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/13/22 14:30	10/17/22 21:33	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/13/22 14:30	10/17/22 21:33	1
1-Methylnaphthalene	ND		0.21	0.061	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/13/22 14:30	10/17/22 21:33	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/13/22 14:30	10/17/22 21:33	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-12CR-100622**

**Lab Sample ID: 180-145919-1**

Date Collected: 10/06/22 09:50

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/13/22 14:30	10/17/22 21:33	1
2-Chlorophenol	ND		1.1	0.14	ug/L		10/13/22 14:30	10/17/22 21:33	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		10/13/22 14:30	10/17/22 21:33	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/13/22 14:30	10/17/22 21:33	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/13/22 14:30	10/17/22 21:33	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/13/22 14:30	10/17/22 21:33	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/13/22 14:30	10/17/22 21:33	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/13/22 14:30	10/17/22 21:33	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/13/22 14:30	10/17/22 21:33	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/13/22 14:30	10/17/22 21:33	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/13/22 14:30	10/17/22 21:33	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/13/22 14:30	10/17/22 21:33	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/13/22 14:30	10/17/22 21:33	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/13/22 14:30	10/17/22 21:33	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/13/22 14:30	10/17/22 21:33	1
Acenaphthene	ND		0.21	0.071	ug/L		10/13/22 14:30	10/17/22 21:33	1
Acenaphthylene	ND		0.21	0.071	ug/L		10/13/22 14:30	10/17/22 21:33	1
<b>Anthracene</b>	<b>0.064</b>	<b>J</b>	0.21	0.053	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzoic acid	ND		5.4	1.0	ug/L		10/13/22 14:30	10/17/22 21:33	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/13/22 14:30	10/17/22 21:33	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/13/22 14:30	10/17/22 21:33	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/13/22 14:30	10/17/22 21:33	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		10/13/22 14:30	10/17/22 21:33	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/13/22 14:30	10/17/22 21:33	1
<b>Butyl benzyl phthalate</b>	<b>0.54</b>	<b>J</b>	1.1	0.50	ug/L		10/13/22 14:30	10/17/22 21:33	1
Chrysene	ND		0.21	0.088	ug/L		10/13/22 14:30	10/17/22 21:33	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/13/22 14:30	10/17/22 21:33	1
Dibenzofuran	ND		1.1	0.21	ug/L		10/13/22 14:30	10/17/22 21:33	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/13/22 14:30	10/17/22 21:33	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/13/22 14:30	10/17/22 21:33	1
<b>Di-n-butyl phthalate</b>	<b>1.4</b>		1.1	0.81	ug/L		10/13/22 14:30	10/17/22 21:33	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/13/22 14:30	10/17/22 21:33	1
Fluoranthene	ND		0.21	0.065	ug/L		10/13/22 14:30	10/17/22 21:33	1
Fluorene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/17/22 21:33	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/13/22 14:30	10/17/22 21:33	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/17/22 21:33	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/13/22 14:30	10/17/22 21:33	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/13/22 14:30	10/17/22 21:33	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/13/22 14:30	10/17/22 21:33	1
Isophorone	ND		1.1	0.20	ug/L		10/13/22 14:30	10/17/22 21:33	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/13/22 14:30	10/17/22 21:33	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/13/22 14:30	10/17/22 21:33	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/13/22 14:30	10/17/22 21:33	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/13/22 14:30	10/17/22 21:33	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-12CR-100622**

**Lab Sample ID: 180-145919-1**

Date Collected: 10/06/22 09:50

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phenanthrene</b>	<b>0.12</b>	<b>J</b>	0.21	0.060	ug/L		10/13/22 14:30	10/17/22 21:33	1
Phenol	ND		1.1	0.53	ug/L		10/13/22 14:30	10/17/22 21:33	1
Pyrene	ND		0.21	0.059	ug/L		10/13/22 14:30	10/17/22 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	51		23 - 128				10/13/22 14:30	10/17/22 21:33	1
2-Fluorobiphenyl	40		20 - 105				10/13/22 14:30	10/17/22 21:33	1
2-Fluorophenol (Surr)	38		20 - 105				10/13/22 14:30	10/17/22 21:33	1
Nitrobenzene-d5 (Surr)	40		20 - 107				10/13/22 14:30	10/17/22 21:33	1
Phenol-d5 (Surr)	40		20 - 106				10/13/22 14:30	10/17/22 21:33	1
Terphenyl-d14 (Surr)	47		22 - 120				10/13/22 14:30	10/17/22 21:33	1

**Client Sample ID: SUPE-W-30A-100622**

**Lab Sample ID: 180-145919-2**

Date Collected: 10/06/22 11:51

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 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			10/14/22 16:26	1
<b>1,2,4-Trimethylbenzene</b>	<b>6.4</b>		1.0	0.75	ug/L			10/14/22 16:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/14/22 16:26	1
<b>Benzene</b>	<b>13</b>		1.0	0.41	ug/L			10/14/22 16:26	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/22 16:26	1
<b>Ethylbenzene</b>	<b>27</b>		1.0	0.74	ug/L			10/14/22 16:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/22 16:26	1
<b>m-Xylene &amp; p-Xylene</b>	<b>6.1</b>		2.0	0.66	ug/L			10/14/22 16:26	1
<b>Naphthalene</b>	<b>19</b>		1.0	0.43	ug/L			10/14/22 16:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/14/22 16:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/22 16:26	1
<b>o-Xylene</b>	<b>6.8</b>		1.0	0.76	ug/L			10/14/22 16:26	1
Styrene	ND		1.0	0.73	ug/L			10/14/22 16:26	1
<b>Toluene</b>	<b>2.6</b>		1.0	0.51	ug/L			10/14/22 16:26	1
<b>Xylenes, Total</b>	<b>13</b>		2.0	0.66	ug/L			10/14/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					10/14/22 16:26	1
4-Bromofluorobenzene (Surr)	102		73 - 120					10/14/22 16:26	1
Dibromofluoromethane (Surr)	102		75 - 123					10/14/22 16:26	1
Toluene-d8 (Surr)	98		80 - 120					10/14/22 16:26	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		11	3.7	ug/L		10/12/22 09:00	10/13/22 23:39	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	118		24 - 146				10/12/22 09:00	10/13/22 23:39	10
2-Fluorobiphenyl	111		37 - 120				10/12/22 09:00	10/13/22 23:39	10
2-Fluorophenol (Surr)	54		10 - 120				10/12/22 09:00	10/13/22 23:39	10
Nitrobenzene-d5 (Surr)	88		26 - 120				10/12/22 09:00	10/13/22 23:39	10
Phenol-d5 (Surr)	31		11 - 120				10/12/22 09:00	10/13/22 23:39	10
p-Terphenyl-d14	105		64 - 127				10/12/22 09:00	10/13/22 23:39	10

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-30A-100622**

**Lab Sample ID: 180-145919-2**

Date Collected: 10/06/22 11:51

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:13	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/13/22 14:30	10/18/22 12:13	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/13/22 14:30	10/18/22 12:13	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>1-Methylnaphthalene</b>	<b>15</b>		0.21	0.061	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/13/22 14:30	10/18/22 12:13	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/13/22 14:30	10/18/22 12:13	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/13/22 14:30	10/18/22 12:13	1
2-Chlorophenol	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:13	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		10/13/22 14:30	10/18/22 12:13	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/13/22 14:30	10/18/22 12:13	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/13/22 14:30	10/18/22 12:13	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/13/22 14:30	10/18/22 12:13	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/13/22 14:30	10/18/22 12:13	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/13/22 14:30	10/18/22 12:13	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/13/22 14:30	10/18/22 12:13	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/13/22 14:30	10/18/22 12:13	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/13/22 14:30	10/18/22 12:13	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/13/22 14:30	10/18/22 12:13	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/13/22 14:30	10/18/22 12:13	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/13/22 14:30	10/18/22 12:13	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Acenaphthene</b>	<b>45 E</b>		0.21	0.071	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Acenaphthylene</b>	<b>0.56</b>		0.21	0.071	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Anthracene</b>	<b>0.71</b>		0.21	0.053	ug/L		10/13/22 14:30	10/18/22 12:13	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/13/22 14:30	10/18/22 12:13	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/13/22 14:30	10/18/22 12:13	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/13/22 14:30	10/18/22 12:13	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/18/22 12:13	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Benzoic acid</b>	<b>1.7 J</b>		5.4	1.0	ug/L		10/13/22 14:30	10/18/22 12:13	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/13/22 14:30	10/18/22 12:13	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/13/22 14:30	10/18/22 12:13	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/13/22 14:30	10/18/22 12:13	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		10/13/22 14:30	10/18/22 12:13	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Butyl benzyl phthalate</b>	<b>0.66 J</b>		1.1	0.50	ug/L		10/13/22 14:30	10/18/22 12:13	1
Chrysene	ND		0.21	0.088	ug/L		10/13/22 14:30	10/18/22 12:13	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Dibenzofuran</b>	<b>17</b>		1.1	0.21	ug/L		10/13/22 14:30	10/18/22 12:13	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/13/22 14:30	10/18/22 12:13	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/13/22 14:30	10/18/22 12:13	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-30A-100622**

**Lab Sample ID: 180-145919-2**

Date Collected: 10/06/22 11:51

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Di-n-butyl phthalate</b>	<b>1.2</b>		1.1	0.81	ug/L		10/13/22 14:30	10/18/22 12:13	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Fluoranthene</b>	<b>1.3</b>		0.21	0.065	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Fluorene</b>	<b>14</b>		0.21	0.075	ug/L		10/13/22 14:30	10/18/22 12:13	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/13/22 14:30	10/18/22 12:13	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/18/22 12:13	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/13/22 14:30	10/18/22 12:13	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:13	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/13/22 14:30	10/18/22 12:13	1
Isophorone	ND		1.1	0.20	ug/L		10/13/22 14:30	10/18/22 12:13	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/13/22 14:30	10/18/22 12:13	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/13/22 14:30	10/18/22 12:13	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/13/22 14:30	10/18/22 12:13	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Phenanthrene</b>	<b>5.4</b>		0.21	0.060	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Phenol</b>	<b>1.0 J</b>		1.1	0.53	ug/L		10/13/22 14:30	10/18/22 12:13	1
<b>Pyrene</b>	<b>0.90</b>		0.21	0.059	ug/L		10/13/22 14:30	10/18/22 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol (Surr)</i>	58		23 - 128	10/13/22 14:30	10/18/22 12:13	1
<i>2-Fluorobiphenyl</i>	47		20 - 105	10/13/22 14:30	10/18/22 12:13	1
<i>2-Fluorophenol (Surr)</i>	45		20 - 105	10/13/22 14:30	10/18/22 12:13	1
<i>Nitrobenzene-d5 (Surr)</i>	57		20 - 107	10/13/22 14:30	10/18/22 12:13	1
<i>Phenol-d5 (Surr)</i>	49		20 - 106	10/13/22 14:30	10/18/22 12:13	1
<i>Terphenyl-d14 (Surr)</i>	64		22 - 120	10/13/22 14:30	10/18/22 12:13	1

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.2	0.28	ug/L		10/13/22 14:30	10/19/22 13:06	2
1,2-Dichlorobenzene	ND		2.2	0.21	ug/L		10/13/22 14:30	10/19/22 13:06	2
1,3-Dichlorobenzene	ND		2.2	0.22	ug/L		10/13/22 14:30	10/19/22 13:06	2
1,4-Dichlorobenzene	ND		2.2	0.13	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>1-Methylnaphthalene</b>	<b>13</b>		0.41	0.12	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,3,4,6-Tetrachlorophenol	ND		2.2	0.71	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,3,5,6-Tetrachlorophenol	ND		2.2	1.1	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,4,5-Trichlorophenol	ND		2.2	0.55	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,4,6-Trichlorophenol	ND		2.2	0.49	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,4-Dichlorophenol	ND		0.41	0.11	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,4-Dimethylphenol	ND		2.2	0.36	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,4-Dinitrophenol	ND		2.2	3.3	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,4-Dinitrotoluene	ND		2.2	0.77	ug/L		10/13/22 14:30	10/19/22 13:06	2
2,6-Dinitrotoluene	ND		2.2	0.38	ug/L		10/13/22 14:30	10/19/22 13:06	2
2-Chloronaphthalene	ND		0.41	0.13	ug/L		10/13/22 14:30	10/19/22 13:06	2
2-Chlorophenol	ND		2.2	0.28	ug/L		10/13/22 14:30	10/19/22 13:06	2
2-Methylnaphthalene	ND		0.41	0.13	ug/L		10/13/22 14:30	10/19/22 13:06	2
2-Methylphenol	ND		2.2	0.65	ug/L		10/13/22 14:30	10/19/22 13:06	2
2-Nitroaniline	ND		11	1.2	ug/L		10/13/22 14:30	10/19/22 13:06	2
2-Nitrophenol	ND		2.2	0.42	ug/L		10/13/22 14:30	10/19/22 13:06	2
3,3'-Dichlorobenzidine	ND		2.2	1.3	ug/L		10/13/22 14:30	10/19/22 13:06	2
3-Nitroaniline	ND		11	0.95	ug/L		10/13/22 14:30	10/19/22 13:06	2

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-30A-100622**

**Lab Sample ID: 180-145919-2**

Date Collected: 10/06/22 11:51

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) - DL (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		11	3.2	ug/L		10/13/22 14:30	10/19/22 13:06	2
4-Bromophenyl phenyl ether	ND		2.2	0.69	ug/L		10/13/22 14:30	10/19/22 13:06	2
4-Chloro-3-methylphenol	ND		2.2	0.60	ug/L		10/13/22 14:30	10/19/22 13:06	2
4-Chloroaniline	ND		2.2	0.82	ug/L		10/13/22 14:30	10/19/22 13:06	2
4-Chlorophenyl phenyl ether	ND		2.2	0.48	ug/L		10/13/22 14:30	10/19/22 13:06	2
4-Nitroaniline	ND		11	0.79	ug/L		10/13/22 14:30	10/19/22 13:06	2
4-Nitrophenol	ND		11	2.0	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Acenaphthene</b>	<b>39</b>		0.41	0.14	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Acenaphthylene</b>	<b>0.51</b>		0.41	0.14	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Anthracene</b>	<b>0.65</b>		0.41	0.11	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzo[a]anthracene	ND		0.41	0.16	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzo[a]pyrene	ND		0.41	0.12	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzo[b]fluoranthene	ND		0.41	0.21	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzo[g,h,i]perylene	ND		0.41	0.15	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzo[k]fluoranthene	ND		0.41	0.19	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzoic acid	ND		11	2.0	ug/L		10/13/22 14:30	10/19/22 13:06	2
Benzyl alcohol	ND		2.2	0.35	ug/L		10/13/22 14:30	10/19/22 13:06	2
Bis(2-chloroethoxy)methane	ND		2.2	0.33	ug/L		10/13/22 14:30	10/19/22 13:06	2
Bis(2-chloroethyl)ether	ND		0.41	0.087	ug/L		10/13/22 14:30	10/19/22 13:06	2
Bis(2-ethylhexyl) phthalate	ND		22	14	ug/L		10/13/22 14:30	10/19/22 13:06	2
bis(chloroisopropyl) ether	ND		0.41	0.13	ug/L		10/13/22 14:30	10/19/22 13:06	2
Butyl benzyl phthalate	ND		2.2	1.0	ug/L		10/13/22 14:30	10/19/22 13:06	2
Chrysene	ND		0.41	0.18	ug/L		10/13/22 14:30	10/19/22 13:06	2
Dibenz(a,h)anthracene	ND		0.41	0.16	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Dibenzofuran</b>	<b>15</b>		2.2	0.41	ug/L		10/13/22 14:30	10/19/22 13:06	2
Diethyl phthalate	ND		2.2	1.2	ug/L		10/13/22 14:30	10/19/22 13:06	2
Dimethyl phthalate	ND		2.2	0.43	ug/L		10/13/22 14:30	10/19/22 13:06	2
Di-n-butyl phthalate	ND		2.2	1.6	ug/L		10/13/22 14:30	10/19/22 13:06	2
Di-n-octyl phthalate	ND		2.2	1.5	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Fluoranthene</b>	<b>1.2</b>		0.41	0.13	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Fluorene</b>	<b>12</b>		0.41	0.15	ug/L		10/13/22 14:30	10/19/22 13:06	2
Hexachlorobenzene	ND		0.41	0.12	ug/L		10/13/22 14:30	10/19/22 13:06	2
Hexachlorobutadiene	ND		0.41	0.15	ug/L		10/13/22 14:30	10/19/22 13:06	2
Hexachlorocyclopentadiene	ND		2.2	1.1	ug/L		10/13/22 14:30	10/19/22 13:06	2
Hexachloroethane	ND		2.2	0.29	ug/L		10/13/22 14:30	10/19/22 13:06	2
Indeno[1,2,3-cd]pyrene	ND		0.41	0.18	ug/L		10/13/22 14:30	10/19/22 13:06	2
Isophorone	ND		2.2	0.41	ug/L		10/13/22 14:30	10/19/22 13:06	2
Methylphenol, 3 & 4	ND		2.2	0.81	ug/L		10/13/22 14:30	10/19/22 13:06	2
Nitrobenzene	ND		4.3	1.1	ug/L		10/13/22 14:30	10/19/22 13:06	2
N-Nitrosodi-n-propylamine	ND		0.41	0.15	ug/L		10/13/22 14:30	10/19/22 13:06	2
N-Nitrosodiphenylamine	ND		2.2	0.26	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Phenanthrene</b>	<b>4.7</b>		0.41	0.12	ug/L		10/13/22 14:30	10/19/22 13:06	2
Phenol	ND		2.2	1.1	ug/L		10/13/22 14:30	10/19/22 13:06	2
<b>Pyrene</b>	<b>0.70</b>		0.41	0.12	ug/L		10/13/22 14:30	10/19/22 13:06	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		23 - 128				10/13/22 14:30	10/19/22 13:06	2
2-Fluorobiphenyl	65		20 - 105				10/13/22 14:30	10/19/22 13:06	2
2-Fluorophenol (Surr)	61		20 - 105				10/13/22 14:30	10/19/22 13:06	2
Nitrobenzene-d5 (Surr)	76		20 - 107				10/13/22 14:30	10/19/22 13:06	2

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-30A-100622**

**Lab Sample ID: 180-145919-2**

Date Collected: 10/06/22 11:51

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) - DL (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	60		20 - 106	10/13/22 14:30	10/19/22 13:06	2
Terphenyl-d14 (Surr)	70		22 - 120	10/13/22 14:30	10/19/22 13:06	2

**Client Sample ID: SUPE-EB3-100622**

**Lab Sample ID: 180-145919-3**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 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			10/14/22 16:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/14/22 16:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/14/22 16:49	1
Benzene	ND		1.0	0.41	ug/L			10/14/22 16:49	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/22 16:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/22 16:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/22 16:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/14/22 16:49	1
Naphthalene	ND		1.0	0.43	ug/L			10/14/22 16:49	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/14/22 16:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/22 16:49	1
o-Xylene	ND		1.0	0.76	ug/L			10/14/22 16:49	1
Styrene	ND		1.0	0.73	ug/L			10/14/22 16:49	1
Toluene	ND		1.0	0.51	ug/L			10/14/22 16:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/22 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		10/14/22 16:49	1
4-Bromofluorobenzene (Surr)	105		73 - 120		10/14/22 16:49	1
Dibromofluoromethane (Surr)	96		75 - 123		10/14/22 16:49	1
Toluene-d8 (Surr)	99		80 - 120		10/14/22 16:49	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.1	0.36	ug/L		10/12/22 09:00	10/14/22 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		24 - 146	10/12/22 09:00	10/14/22 00:06	1
2-Fluorobiphenyl	98		37 - 120	10/12/22 09:00	10/14/22 00:06	1
2-Fluorophenol (Surr)	50		10 - 120	10/12/22 09:00	10/14/22 00:06	1
Nitrobenzene-d5 (Surr)	75		26 - 120	10/12/22 09:00	10/14/22 00:06	1
Phenol-d5 (Surr)	33		11 - 120	10/12/22 09:00	10/14/22 00:06	1
p-Terphenyl-d14	94		64 - 127	10/12/22 09:00	10/14/22 00:06	1

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:35	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/13/22 14:30	10/18/22 12:35	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/13/22 14:30	10/18/22 12:35	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/13/22 14:30	10/18/22 12:35	1
1-Methylnaphthalene	ND		0.21	0.061	ug/L		10/13/22 14:30	10/18/22 12:35	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-EB3-100622**

**Lab Sample ID: 180-145919-3**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/13/22 14:30	10/18/22 12:35	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/13/22 14:30	10/18/22 12:35	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/13/22 14:30	10/18/22 12:35	1
2-Chlorophenol	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:35	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		10/13/22 14:30	10/18/22 12:35	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/13/22 14:30	10/18/22 12:35	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/13/22 14:30	10/18/22 12:35	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/13/22 14:30	10/18/22 12:35	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/13/22 14:30	10/18/22 12:35	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/13/22 14:30	10/18/22 12:35	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/13/22 14:30	10/18/22 12:35	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/13/22 14:30	10/18/22 12:35	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/13/22 14:30	10/18/22 12:35	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/13/22 14:30	10/18/22 12:35	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/13/22 14:30	10/18/22 12:35	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/13/22 14:30	10/18/22 12:35	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/13/22 14:30	10/18/22 12:35	1
Acenaphthene	ND		0.21	0.071	ug/L		10/13/22 14:30	10/18/22 12:35	1
Acenaphthylene	ND		0.21	0.071	ug/L		10/13/22 14:30	10/18/22 12:35	1
Anthracene	ND		0.21	0.053	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzoic acid	ND		5.4	1.0	ug/L		10/13/22 14:30	10/18/22 12:35	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/13/22 14:30	10/18/22 12:35	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/13/22 14:30	10/18/22 12:35	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/13/22 14:30	10/18/22 12:35	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		10/13/22 14:30	10/18/22 12:35	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/13/22 14:30	10/18/22 12:35	1
<b>Butyl benzyl phthalate</b>	<b>0.74</b>	<b>J</b>	1.1	0.50	ug/L		10/13/22 14:30	10/18/22 12:35	1
Chrysene	ND		0.21	0.088	ug/L		10/13/22 14:30	10/18/22 12:35	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/13/22 14:30	10/18/22 12:35	1
Dibenzofuran	ND		1.1	0.21	ug/L		10/13/22 14:30	10/18/22 12:35	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/13/22 14:30	10/18/22 12:35	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/13/22 14:30	10/18/22 12:35	1
<b>Di-n-butyl phthalate</b>	<b>1.0</b>	<b>J</b>	1.1	0.81	ug/L		10/13/22 14:30	10/18/22 12:35	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/13/22 14:30	10/18/22 12:35	1
Fluoranthene	ND		0.21	0.065	ug/L		10/13/22 14:30	10/18/22 12:35	1
Fluorene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/18/22 12:35	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/13/22 14:30	10/18/22 12:35	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-EB3-100622**

**Lab Sample ID: 180-145919-3**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/13/22 14:30	10/18/22 12:35	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/13/22 14:30	10/18/22 12:35	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:35	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/13/22 14:30	10/18/22 12:35	1
Isophorone	ND		1.1	0.20	ug/L		10/13/22 14:30	10/18/22 12:35	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/13/22 14:30	10/18/22 12:35	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/13/22 14:30	10/18/22 12:35	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/13/22 14:30	10/18/22 12:35	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/13/22 14:30	10/18/22 12:35	1
<b>Phenanthrene</b>	<b>0.14</b>	<b>J</b>	0.21	0.060	ug/L		10/13/22 14:30	10/18/22 12:35	1
Phenol	ND		1.1	0.53	ug/L		10/13/22 14:30	10/18/22 12:35	1
Pyrene	ND		0.21	0.059	ug/L		10/13/22 14:30	10/18/22 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	49		23 - 128				10/13/22 14:30	10/18/22 12:35	1
2-Fluorobiphenyl	51		20 - 105				10/13/22 14:30	10/18/22 12:35	1
2-Fluorophenol (Surr)	35		20 - 105				10/13/22 14:30	10/18/22 12:35	1
Nitrobenzene-d5 (Surr)	58		20 - 107				10/13/22 14:30	10/18/22 12:35	1
Phenol-d5 (Surr)	31		20 - 106				10/13/22 14:30	10/18/22 12:35	1
Terphenyl-d14 (Surr)	66		22 - 120				10/13/22 14:30	10/18/22 12:35	1

**Client Sample ID: SUPE-W-10AR2-100622**

**Lab Sample ID: 180-145919-4**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 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			10/14/22 17:12	1
<b>1,2,4-Trimethylbenzene</b>	<b>10</b>		1.0	0.75	ug/L			10/14/22 17:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/14/22 17:12	1
<b>Benzene</b>	<b>19</b>		1.0	0.41	ug/L			10/14/22 17:12	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/22 17:12	1
<b>Ethylbenzene</b>	<b>41</b>		1.0	0.74	ug/L			10/14/22 17:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/22 17:12	1
<b>m-Xylene &amp; p-Xylene</b>	<b>3.3</b>		2.0	0.66	ug/L			10/14/22 17:12	1
<b>Naphthalene</b>	<b>3.6</b>		1.0	0.43	ug/L			10/14/22 17:12	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/14/22 17:12	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/22 17:12	1
<b>o-Xylene</b>	<b>18</b>		1.0	0.76	ug/L			10/14/22 17:12	1
Styrene	ND		1.0	0.73	ug/L			10/14/22 17:12	1
<b>Toluene</b>	<b>2.4</b>		1.0	0.51	ug/L			10/14/22 17:12	1
<b>Xylenes, Total</b>	<b>21</b>		2.0	0.66	ug/L			10/14/22 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					10/14/22 17:12	1
4-Bromofluorobenzene (Surr)	100		73 - 120					10/14/22 17:12	1
Dibromofluoromethane (Surr)	95		75 - 123					10/14/22 17:12	1
Toluene-d8 (Surr)	100		80 - 120					10/14/22 17:12	1

# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-10AR2-100622**

**Lab Sample ID: 180-145919-4**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.3	1.8	ug/L		10/12/22 09:00	10/14/22 00:34	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		24 - 146				10/12/22 09:00	10/14/22 00:34	5
2-Fluorobiphenyl	94		37 - 120				10/12/22 09:00	10/14/22 00:34	5
2-Fluorophenol (Surr)	46		10 - 120				10/12/22 09:00	10/14/22 00:34	5
Nitrobenzene-d5 (Surr)	74		26 - 120				10/12/22 09:00	10/14/22 00:34	5
Phenol-d5 (Surr)	29		11 - 120				10/12/22 09:00	10/14/22 00:34	5
p-Terphenyl-d14	92		64 - 127				10/12/22 09:00	10/14/22 00:34	5

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.15	ug/L		10/13/22 14:30	10/18/22 12:56	1
1,2-Dichlorobenzene	ND		1.1	0.11	ug/L		10/13/22 14:30	10/18/22 12:56	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/13/22 14:30	10/18/22 12:56	1
1,4-Dichlorobenzene	ND		1.1	0.069	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>1-Methylnaphthalene</b>	<b>20</b>		0.22	0.064	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.37	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.58	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,4,5-Trichlorophenol	ND		1.1	0.29	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,4,6-Trichlorophenol	ND		1.1	0.25	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,4-Dichlorophenol	ND		0.22	0.058	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,4-Dimethylphenol	ND		1.1	0.19	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,4-Dinitrotoluene	ND		1.1	0.40	ug/L		10/13/22 14:30	10/18/22 12:56	1
2,6-Dinitrotoluene	ND		1.1	0.20	ug/L		10/13/22 14:30	10/18/22 12:56	1
2-Chloronaphthalene	ND		0.22	0.067	ug/L		10/13/22 14:30	10/18/22 12:56	1
2-Chlorophenol	ND		1.1	0.15	ug/L		10/13/22 14:30	10/18/22 12:56	1
2-Methylnaphthalene	ND		0.22	0.070	ug/L		10/13/22 14:30	10/18/22 12:56	1
2-Methylphenol	ND		1.1	0.34	ug/L		10/13/22 14:30	10/18/22 12:56	1
2-Nitroaniline	ND		5.7	0.62	ug/L		10/13/22 14:30	10/18/22 12:56	1
2-Nitrophenol	ND		1.1	0.22	ug/L		10/13/22 14:30	10/18/22 12:56	1
3,3'-Dichlorobenzidine	ND		1.1	0.66	ug/L		10/13/22 14:30	10/18/22 12:56	1
3-Nitroaniline	ND		5.7	0.50	ug/L		10/13/22 14:30	10/18/22 12:56	1
4,6-Dinitro-2-methylphenol	ND		5.7	1.7	ug/L		10/13/22 14:30	10/18/22 12:56	1
4-Bromophenyl phenyl ether	ND		1.1	0.36	ug/L		10/13/22 14:30	10/18/22 12:56	1
4-Chloro-3-methylphenol	ND		1.1	0.32	ug/L		10/13/22 14:30	10/18/22 12:56	1
4-Chloroaniline	ND		1.1	0.43	ug/L		10/13/22 14:30	10/18/22 12:56	1
4-Chlorophenyl phenyl ether	ND		1.1	0.25	ug/L		10/13/22 14:30	10/18/22 12:56	1
4-Nitroaniline	ND		5.7	0.41	ug/L		10/13/22 14:30	10/18/22 12:56	1
4-Nitrophenol	ND		5.7	1.1	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Acenaphthene</b>	<b>75</b>	<b>E</b>	0.22	0.074	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Acenaphthylene</b>	<b>1.0</b>		0.22	0.074	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Anthracene</b>	<b>0.67</b>		0.22	0.056	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Benzo[a]anthracene</b>	<b>0.16</b>	<b>J</b>	0.22	0.085	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Benzo[a]pyrene</b>	<b>0.062</b>	<b>J</b>	0.22	0.060	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Benzo[b]fluoranthene</b>	<b>0.25</b>		0.22	0.11	ug/L		10/13/22 14:30	10/18/22 12:56	1
Benzo[g,h,i]perylene	ND		0.22	0.078	ug/L		10/13/22 14:30	10/18/22 12:56	1
Benzo[k]fluoranthene	ND		0.22	0.10	ug/L		10/13/22 14:30	10/18/22 12:56	1
Benzoic acid	ND		5.7	1.0	ug/L		10/13/22 14:30	10/18/22 12:56	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-10AR2-100622**

**Lab Sample ID: 180-145919-4**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND		1.1	0.19	ug/L		10/13/22 14:30	10/18/22 12:56	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/13/22 14:30	10/18/22 12:56	1
Bis(2-chloroethyl)ether	ND		0.22	0.045	ug/L		10/13/22 14:30	10/18/22 12:56	1
Bis(2-ethylhexyl) phthalate	ND		11	7.1	ug/L		10/13/22 14:30	10/18/22 12:56	1
bis(chloroisopropyl) ether	ND		0.22	0.066	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Butyl benzyl phthalate</b>	<b>0.72</b>	<b>J</b>	1.1	0.53	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Chrysene</b>	<b>0.22</b>		0.22	0.092	ug/L		10/13/22 14:30	10/18/22 12:56	1
Dibenz(a,h)anthracene	ND		0.22	0.082	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Dibenzofuran</b>	<b>17</b>		1.1	0.22	ug/L		10/13/22 14:30	10/18/22 12:56	1
Diethyl phthalate	ND		1.1	0.64	ug/L		10/13/22 14:30	10/18/22 12:56	1
Dimethyl phthalate	ND		1.1	0.23	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Di-n-butyl phthalate</b>	<b>1.2</b>		1.1	0.84	ug/L		10/13/22 14:30	10/18/22 12:56	1
Di-n-octyl phthalate	ND		1.1	0.78	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Fluoranthene</b>	<b>2.1</b>		0.22	0.068	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Fluorene</b>	<b>17</b>		0.22	0.078	ug/L		10/13/22 14:30	10/18/22 12:56	1
Hexachlorobenzene	ND		0.22	0.064	ug/L		10/13/22 14:30	10/18/22 12:56	1
Hexachlorobutadiene	ND		0.22	0.078	ug/L		10/13/22 14:30	10/18/22 12:56	1
Hexachlorocyclopentadiene	ND		1.1	0.56	ug/L		10/13/22 14:30	10/18/22 12:56	1
Hexachloroethane	ND		1.1	0.15	ug/L		10/13/22 14:30	10/18/22 12:56	1
Indeno[1,2,3-cd]pyrene	ND		0.22	0.097	ug/L		10/13/22 14:30	10/18/22 12:56	1
Isophorone	ND		1.1	0.21	ug/L		10/13/22 14:30	10/18/22 12:56	1
Methylphenol, 3 & 4	ND		1.1	0.42	ug/L		10/13/22 14:30	10/18/22 12:56	1
Nitrobenzene	ND		2.3	0.57	ug/L		10/13/22 14:30	10/18/22 12:56	1
N-Nitrosodi-n-propylamine	ND		0.22	0.081	ug/L		10/13/22 14:30	10/18/22 12:56	1
N-Nitrosodiphenylamine	ND		1.1	0.14	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Phenanthrene</b>	<b>0.58</b>		0.22	0.063	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Phenol</b>	<b>2.0</b>		1.1	0.55	ug/L		10/13/22 14:30	10/18/22 12:56	1
<b>Pyrene</b>	<b>1.4</b>		0.22	0.061	ug/L		10/13/22 14:30	10/18/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	58		23 - 128				10/13/22 14:30	10/18/22 12:56	1
2-Fluorobiphenyl	51		20 - 105				10/13/22 14:30	10/18/22 12:56	1
2-Fluorophenol (Surr)	48		20 - 105				10/13/22 14:30	10/18/22 12:56	1
Nitrobenzene-d5 (Surr)	62		20 - 107				10/13/22 14:30	10/18/22 12:56	1
Phenol-d5 (Surr)	53		20 - 106				10/13/22 14:30	10/18/22 12:56	1
Terphenyl-d14 (Surr)	61		22 - 120				10/13/22 14:30	10/18/22 12:56	1

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.7	0.74	ug/L		10/13/22 14:30	10/19/22 13:27	5
1,2-Dichlorobenzene	ND		5.7	0.54	ug/L		10/13/22 14:30	10/19/22 13:27	5
1,3-Dichlorobenzene	ND		5.7	0.56	ug/L		10/13/22 14:30	10/19/22 13:27	5
1,4-Dichlorobenzene	ND		5.7	0.35	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>1-Methylnaphthalene</b>	<b>17</b>		1.1	0.32	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,3,4,6-Tetrachlorophenol	ND		5.7	1.9	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,3,5,6-Tetrachlorophenol	ND		5.7	2.9	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,4,5-Trichlorophenol	ND		5.7	1.4	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,4,6-Trichlorophenol	ND		5.7	1.3	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,4-Dichlorophenol	ND		1.1	0.29	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,4-Dimethylphenol	ND		5.7	0.95	ug/L		10/13/22 14:30	10/19/22 13:27	5

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-10AR2-100622**

**Lab Sample ID: 180-145919-4**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) - DL (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		57	8.7	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,4-Dinitrotoluene	ND		5.7	2.0	ug/L		10/13/22 14:30	10/19/22 13:27	5
2,6-Dinitrotoluene	ND		5.7	0.98	ug/L		10/13/22 14:30	10/19/22 13:27	5
2-Chloronaphthalene	ND		1.1	0.34	ug/L		10/13/22 14:30	10/19/22 13:27	5
2-Chlorophenol	ND		5.7	0.73	ug/L		10/13/22 14:30	10/19/22 13:27	5
2-Methylnaphthalene	ND		1.1	0.35	ug/L		10/13/22 14:30	10/19/22 13:27	5
2-Methylphenol	ND		5.7	1.7	ug/L		10/13/22 14:30	10/19/22 13:27	5
2-Nitroaniline	ND		28	3.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
2-Nitrophenol	ND		5.7	1.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
3,3'-Dichlorobenzidine	ND		5.7	3.3	ug/L		10/13/22 14:30	10/19/22 13:27	5
3-Nitroaniline	ND		28	2.5	ug/L		10/13/22 14:30	10/19/22 13:27	5
4,6-Dinitro-2-methylphenol	ND		28	8.4	ug/L		10/13/22 14:30	10/19/22 13:27	5
4-Bromophenyl phenyl ether	ND		5.7	1.8	ug/L		10/13/22 14:30	10/19/22 13:27	5
4-Chloro-3-methylphenol	ND		5.7	1.6	ug/L		10/13/22 14:30	10/19/22 13:27	5
4-Chloroaniline	ND		5.7	2.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
4-Chlorophenyl phenyl ether	ND		5.7	1.3	ug/L		10/13/22 14:30	10/19/22 13:27	5
4-Nitroaniline	ND		28	2.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
4-Nitrophenol	ND		28	5.3	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Acenaphthene</b>	<b>62</b>		1.1	0.37	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Acenaphthylene</b>	<b>0.90</b>	<b>J</b>	1.1	0.37	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Anthracene</b>	<b>0.61</b>	<b>J</b>	1.1	0.28	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzo[a]anthracene	ND		1.1	0.43	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzo[a]pyrene	ND		1.1	0.30	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzo[b]fluoranthene	ND		1.1	0.55	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzo[g,h,i]perylene	ND		1.1	0.39	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzo[k]fluoranthene	ND		1.1	0.50	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzoic acid	ND		28	5.2	ug/L		10/13/22 14:30	10/19/22 13:27	5
Benzyl alcohol	ND		5.7	0.93	ug/L		10/13/22 14:30	10/19/22 13:27	5
Bis(2-chloroethoxy)methane	ND		5.7	0.86	ug/L		10/13/22 14:30	10/19/22 13:27	5
Bis(2-chloroethyl)ether	ND		1.1	0.23	ug/L		10/13/22 14:30	10/19/22 13:27	5
Bis(2-ethylhexyl) phthalate	ND		57	35	ug/L		10/13/22 14:30	10/19/22 13:27	5
bis(chloroisopropyl) ether	ND		1.1	0.33	ug/L		10/13/22 14:30	10/19/22 13:27	5
Butyl benzyl phthalate	ND		5.7	2.6	ug/L		10/13/22 14:30	10/19/22 13:27	5
Chrysene	ND		1.1	0.46	ug/L		10/13/22 14:30	10/19/22 13:27	5
Dibenz(a,h)anthracene	ND		1.1	0.41	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Dibenzofuran</b>	<b>15</b>		5.7	1.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
Diethyl phthalate	ND		5.7	3.2	ug/L		10/13/22 14:30	10/19/22 13:27	5
Dimethyl phthalate	ND		5.7	1.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
Di-n-butyl phthalate	ND		5.7	4.2	ug/L		10/13/22 14:30	10/19/22 13:27	5
Di-n-octyl phthalate	ND		5.7	3.9	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Fluoranthene</b>	<b>1.9</b>		1.1	0.34	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Fluorene</b>	<b>15</b>		1.1	0.39	ug/L		10/13/22 14:30	10/19/22 13:27	5
Hexachlorobenzene	ND		1.1	0.32	ug/L		10/13/22 14:30	10/19/22 13:27	5
Hexachlorobutadiene	ND		1.1	0.39	ug/L		10/13/22 14:30	10/19/22 13:27	5
Hexachlorocyclopentadiene	ND		5.7	2.8	ug/L		10/13/22 14:30	10/19/22 13:27	5
Hexachloroethane	ND		5.7	0.76	ug/L		10/13/22 14:30	10/19/22 13:27	5
Indeno[1,2,3-cd]pyrene	ND		1.1	0.48	ug/L		10/13/22 14:30	10/19/22 13:27	5
Isophorone	ND		5.7	1.1	ug/L		10/13/22 14:30	10/19/22 13:27	5
Methylphenol, 3 & 4	ND		5.7	2.1	ug/L		10/13/22 14:30	10/19/22 13:27	5

# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-10AR2-100622**

**Lab Sample ID: 180-145919-4**

Date Collected: 10/06/22 13:48

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) - DL (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		11	2.8	ug/L		10/13/22 14:30	10/19/22 13:27	5
N-Nitrosodi-n-propylamine	ND		1.1	0.40	ug/L		10/13/22 14:30	10/19/22 13:27	5
N-Nitrosodiphenylamine	ND		5.7	0.68	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Phenanthrene</b>	<b>0.52</b>	<b>J</b>	1.1	0.31	ug/L		10/13/22 14:30	10/19/22 13:27	5
Phenol	ND		5.7	2.8	ug/L		10/13/22 14:30	10/19/22 13:27	5
<b>Pyrene</b>	<b>1.3</b>		1.1	0.31	ug/L		10/13/22 14:30	10/19/22 13:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		23 - 128				10/13/22 14:30	10/19/22 13:27	5
2-Fluorobiphenyl	70		20 - 105				10/13/22 14:30	10/19/22 13:27	5
2-Fluorophenol (Surr)	68		20 - 105				10/13/22 14:30	10/19/22 13:27	5
Nitrobenzene-d5 (Surr)	84		20 - 107				10/13/22 14:30	10/19/22 13:27	5
Phenol-d5 (Surr)	67		20 - 106				10/13/22 14:30	10/19/22 13:27	5
Terphenyl-d14 (Surr)	80		22 - 120				10/13/22 14:30	10/19/22 13:27	5

**Client Sample ID: SUPE-W-18D-100622**

**Lab Sample ID: 180-145919-5**

Date Collected: 10/06/22 15:24

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.1	0.36	ug/L		10/12/22 09:00	10/14/22 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		24 - 146				10/12/22 09:00	10/14/22 01:02	1
2-Fluorobiphenyl	99		37 - 120				10/12/22 09:00	10/14/22 01:02	1
2-Fluorophenol (Surr)	51		10 - 120				10/12/22 09:00	10/14/22 01:02	1
Nitrobenzene-d5 (Surr)	74		26 - 120				10/12/22 09:00	10/14/22 01:02	1
Phenol-d5 (Surr)	33		11 - 120				10/12/22 09:00	10/14/22 01:02	1
p-Terphenyl-d14	101		64 - 127				10/12/22 09:00	10/14/22 01:02	1

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/13/22 14:30	10/18/22 13:18	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/13/22 14:30	10/18/22 13:18	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/13/22 14:30	10/18/22 13:18	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/13/22 14:30	10/18/22 13:18	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/13/22 14:30	10/18/22 13:18	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/13/22 14:30	10/18/22 13:18	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/13/22 14:30	10/18/22 13:18	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/13/22 14:30	10/18/22 13:18	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/13/22 14:30	10/18/22 13:18	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/13/22 14:30	10/18/22 13:18	1

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# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-18D-100622**

**Lab Sample ID: 180-145919-5**

Date Collected: 10/06/22 15:24

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		5.0	0.55	ug/L		10/13/22 14:30	10/18/22 13:18	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/13/22 14:30	10/18/22 13:18	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/13/22 14:30	10/18/22 13:18	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/13/22 14:30	10/18/22 13:18	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/13/22 14:30	10/18/22 13:18	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/13/22 14:30	10/18/22 13:18	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/13/22 14:30	10/18/22 13:18	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/13/22 14:30	10/18/22 13:18	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/13/22 14:30	10/18/22 13:18	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/13/22 14:30	10/18/22 13:18	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/13/22 14:30	10/18/22 13:18	1
<b>Acenaphthene</b>	<b>0.073</b>	<b>J</b>	0.19	0.065	ug/L		10/13/22 14:30	10/18/22 13:18	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/13/22 14:30	10/18/22 13:18	1
Anthracene	ND		0.19	0.049	ug/L		10/13/22 14:30	10/18/22 13:18	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/13/22 14:30	10/18/22 13:18	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/13/22 14:30	10/18/22 13:18	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/13/22 14:30	10/18/22 13:18	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/13/22 14:30	10/18/22 13:18	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/13/22 14:30	10/18/22 13:18	1
<b>Benzoic acid</b>	<b>1.7</b>	<b>J</b>	5.0	0.92	ug/L		10/13/22 14:30	10/18/22 13:18	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/13/22 14:30	10/18/22 13:18	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/13/22 14:30	10/18/22 13:18	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/13/22 14:30	10/18/22 13:18	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/13/22 14:30	10/18/22 13:18	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/13/22 14:30	10/18/22 13:18	1
<b>Butyl benzyl phthalate</b>	<b>0.65</b>	<b>J</b>	1.0	0.46	ug/L		10/13/22 14:30	10/18/22 13:18	1
Chrysene	ND		0.19	0.081	ug/L		10/13/22 14:30	10/18/22 13:18	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/13/22 14:30	10/18/22 13:18	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/13/22 14:30	10/18/22 13:18	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/13/22 14:30	10/18/22 13:18	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/13/22 14:30	10/18/22 13:18	1
<b>Di-n-butyl phthalate</b>	<b>1.1</b>		1.0	0.74	ug/L		10/13/22 14:30	10/18/22 13:18	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/13/22 14:30	10/18/22 13:18	1
Fluoranthene	ND		0.19	0.060	ug/L		10/13/22 14:30	10/18/22 13:18	1
Fluorene	ND		0.19	0.069	ug/L		10/13/22 14:30	10/18/22 13:18	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/13/22 14:30	10/18/22 13:18	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/13/22 14:30	10/18/22 13:18	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/13/22 14:30	10/18/22 13:18	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/13/22 14:30	10/18/22 13:18	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/13/22 14:30	10/18/22 13:18	1
Isophorone	ND		1.0	0.19	ug/L		10/13/22 14:30	10/18/22 13:18	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/13/22 14:30	10/18/22 13:18	1
Naphthalene	ND		0.19	0.059	ug/L		10/13/22 14:30	10/18/22 13:18	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/13/22 14:30	10/18/22 13:18	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/13/22 14:30	10/18/22 13:18	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/13/22 14:30	10/18/22 13:18	1
<b>Phenanthrene</b>	<b>0.27</b>		0.19	0.055	ug/L		10/13/22 14:30	10/18/22 13:18	1
Phenol	ND		1.0	0.49	ug/L		10/13/22 14:30	10/18/22 13:18	1
Pyrene	ND		0.19	0.054	ug/L		10/13/22 14:30	10/18/22 13:18	1



# Client Sample Results

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

Job ID: 180-145919-1

**Client Sample ID: SUPE-W-18D-100622**

**Lab Sample ID: 180-145919-5**

Date Collected: 10/06/22 15:24

Matrix: Water

Date Received: 10/08/22 12:51

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		23 - 128	10/13/22 14:30	10/18/22 13:18	1
2-Fluorobiphenyl	51		20 - 105	10/13/22 14:30	10/18/22 13:18	1
2-Fluorophenol (Surr)	44		20 - 105	10/13/22 14:30	10/18/22 13:18	1
Nitrobenzene-d5 (Surr)	58		20 - 107	10/13/22 14:30	10/18/22 13:18	1
Phenol-d5 (Surr)	48		20 - 106	10/13/22 14:30	10/18/22 13:18	1
Terphenyl-d14 (Surr)	63		22 - 120	10/13/22 14:30	10/18/22 13:18	1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 180-145919-6**

Date Collected: 10/06/22 00:00

Matrix: Water

Date Received: 10/08/22 12:51

**Method: SW846 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			10/14/22 17:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/14/22 17:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/14/22 17:35	1
Benzene	ND		1.0	0.41	ug/L			10/14/22 17:35	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/22 17:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/22 17:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/22 17:35	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/14/22 17:35	1
Naphthalene	ND		1.0	0.43	ug/L			10/14/22 17:35	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/14/22 17:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/22 17:35	1
o-Xylene	ND		1.0	0.76	ug/L			10/14/22 17:35	1
Styrene	ND		1.0	0.73	ug/L			10/14/22 17:35	1
Toluene	ND		1.0	0.51	ug/L			10/14/22 17:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/22 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		10/14/22 17:35	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/14/22 17:35	1
Dibromofluoromethane (Surr)	96		75 - 123		10/14/22 17:35	1
Toluene-d8 (Surr)	97		80 - 120		10/14/22 17:35	1

# QC Sample Results

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

Job ID: 180-145919-1

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

Lab Sample ID: MB 480-645516/7

Matrix: Water

Analysis Batch: 645516

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			10/14/22 15:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/14/22 15:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/14/22 15:28	1
Benzene	ND		1.0	0.41	ug/L			10/14/22 15:28	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/22 15:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/22 15:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/22 15:28	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/14/22 15:28	1
Naphthalene	ND		1.0	0.43	ug/L			10/14/22 15:28	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/14/22 15:28	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/14/22 15:28	1
o-Xylene	ND		1.0	0.76	ug/L			10/14/22 15:28	1
Styrene	ND		1.0	0.73	ug/L			10/14/22 15:28	1
Toluene	ND		1.0	0.51	ug/L			10/14/22 15:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/22 15:28	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		10/14/22 15:28	1
4-Bromofluorobenzene (Surr)	100		73 - 120		10/14/22 15:28	1
Dibromofluoromethane (Surr)	96		75 - 123		10/14/22 15:28	1
Toluene-d8 (Surr)	99		80 - 120		10/14/22 15:28	1

Lab Sample ID: LCS 480-645516/5

Matrix: Water

Analysis Batch: 645516

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	19.9		ug/L		80	73 - 126
1,2,4-Trimethylbenzene	25.0	22.6		ug/L		90	76 - 121
1,3,5-Trimethylbenzene	25.0	22.9		ug/L		92	77 - 121
Benzene	25.0	22.4		ug/L		89	71 - 124
Chloromethane	25.0	22.0		ug/L		88	68 - 124
Ethylbenzene	25.0	22.4		ug/L		89	77 - 123
Methyl tert-butyl ether	25.0	23.9		ug/L		96	77 - 120
m-Xylene & p-Xylene	25.0	22.5		ug/L		90	76 - 122
Naphthalene	25.0	22.8		ug/L		91	66 - 125
n-Butylbenzene	25.0	22.6		ug/L		91	71 - 128
N-Propylbenzene	25.0	23.1		ug/L		92	75 - 127
o-Xylene	25.0	22.8		ug/L		91	76 - 122
Styrene	25.0	24.0		ug/L		96	80 - 120
Toluene	25.0	22.0		ug/L		88	80 - 122
Xylenes, Total	50.0	45.3		ug/L		91	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	98		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: 180-145919-1

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

**Lab Sample ID: MB 480-645029/1-A**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 645029**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1.0	0.34	ug/L		10/12/22 09:00	10/13/22 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		24 - 146				10/12/22 09:00	10/13/22 21:19	1
2-Fluorobiphenyl	99		37 - 120				10/12/22 09:00	10/13/22 21:19	1
2-Fluorophenol (Surr)	49		10 - 120				10/12/22 09:00	10/13/22 21:19	1
Nitrobenzene-d5 (Surr)	73		26 - 120				10/12/22 09:00	10/13/22 21:19	1
Phenol-d5 (Surr)	33		11 - 120				10/12/22 09:00	10/13/22 21:19	1
p-Terphenyl-d14	101		64 - 127				10/12/22 09:00	10/13/22 21:19	1

**Lab Sample ID: LCS 480-645029/2-A**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 645029**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Pentachlorophenol	16.0	13.5		ug/L		84	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	106		24 - 146				
2-Fluorobiphenyl	95		37 - 120				
2-Fluorophenol (Surr)	51		10 - 120				
Nitrobenzene-d5 (Surr)	79		26 - 120				
Phenol-d5 (Surr)	36		11 - 120				
p-Terphenyl-d14	94		64 - 127				

**Lab Sample ID: 180-145919-1 MS**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: SUPE-W-12CR-100622**  
**Prep Type: Total/NA**  
**Prep Batch: 645029**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Pentachlorophenol	ND		32.0	31.1		ug/L		97	23 - 149
Surrogate	%Recovery	Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	114		24 - 146						
2-Fluorobiphenyl	100		37 - 120						
2-Fluorophenol (Surr)	70		10 - 120						
Nitrobenzene-d5 (Surr)	81		26 - 120						
Phenol-d5 (Surr)	59		11 - 120						
p-Terphenyl-d14	101		64 - 127						

**Lab Sample ID: 180-145919-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: SUPE-W-12CR-100622**  
**Prep Type: Total/NA**  
**Prep Batch: 645029**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Pentachlorophenol	ND		32.0	31.4		ug/L		98	23 - 149	1	37

# QC Sample Results

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

Job ID: 180-145919-1

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

Lab Sample ID: 180-145919-1 MSD

Matrix: Water

Analysis Batch: 645323

Client Sample ID: SUPE-W-12CR-100622

Prep Type: Total/NA

Prep Batch: 645029

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	111		24 - 146
2-Fluorobiphenyl	103		37 - 120
2-Fluorophenol (Surr)	71		10 - 120
Nitrobenzene-d5 (Surr)	84		26 - 120
Phenol-d5 (Surr)	60		11 - 120
p-Terphenyl-d14	102		64 - 127

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-415011/1-A

Matrix: Water

Analysis Batch: 415242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 415011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/13/22 14:30	10/17/22 14:24	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/13/22 14:30	10/17/22 14:24	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/13/22 14:30	10/17/22 14:24	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/13/22 14:30	10/17/22 14:24	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/13/22 14:30	10/17/22 14:24	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/13/22 14:30	10/17/22 14:24	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/13/22 14:30	10/17/22 14:24	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/13/22 14:30	10/17/22 14:24	1
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/13/22 14:30	10/17/22 14:24	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/13/22 14:30	10/17/22 14:24	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/13/22 14:30	10/17/22 14:24	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/13/22 14:30	10/17/22 14:24	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/13/22 14:30	10/17/22 14:24	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/13/22 14:30	10/17/22 14:24	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/13/22 14:30	10/17/22 14:24	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/13/22 14:30	10/17/22 14:24	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/13/22 14:30	10/17/22 14:24	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/13/22 14:30	10/17/22 14:24	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/13/22 14:30	10/17/22 14:24	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/13/22 14:30	10/17/22 14:24	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/13/22 14:30	10/17/22 14:24	1
Acenaphthene	ND		0.19	0.065	ug/L		10/13/22 14:30	10/17/22 14:24	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/13/22 14:30	10/17/22 14:24	1
Anthracene	ND		0.19	0.049	ug/L		10/13/22 14:30	10/17/22 14:24	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/13/22 14:30	10/17/22 14:24	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/13/22 14:30	10/17/22 14:24	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/13/22 14:30	10/17/22 14:24	1

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# QC Sample Results

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

Job ID: 180-145919-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-415011/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 415242

Prep Batch: 415011

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/13/22 14:30	10/17/22 14:24	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/13/22 14:30	10/17/22 14:24	1
Benzoic acid	ND		5.0	0.92	ug/L		10/13/22 14:30	10/17/22 14:24	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/13/22 14:30	10/17/22 14:24	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/13/22 14:30	10/17/22 14:24	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/13/22 14:30	10/17/22 14:24	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/13/22 14:30	10/17/22 14:24	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/13/22 14:30	10/17/22 14:24	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/13/22 14:30	10/17/22 14:24	1
Chrysene	ND		0.19	0.081	ug/L		10/13/22 14:30	10/17/22 14:24	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/13/22 14:30	10/17/22 14:24	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/13/22 14:30	10/17/22 14:24	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/13/22 14:30	10/17/22 14:24	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/13/22 14:30	10/17/22 14:24	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/13/22 14:30	10/17/22 14:24	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/13/22 14:30	10/17/22 14:24	1
Fluoranthene	ND		0.19	0.060	ug/L		10/13/22 14:30	10/17/22 14:24	1
Fluorene	ND		0.19	0.069	ug/L		10/13/22 14:30	10/17/22 14:24	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/13/22 14:30	10/17/22 14:24	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/13/22 14:30	10/17/22 14:24	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/13/22 14:30	10/17/22 14:24	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/13/22 14:30	10/17/22 14:24	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/13/22 14:30	10/17/22 14:24	1
Isophorone	ND		1.0	0.19	ug/L		10/13/22 14:30	10/17/22 14:24	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/13/22 14:30	10/17/22 14:24	1
Naphthalene	ND		0.19	0.059	ug/L		10/13/22 14:30	10/17/22 14:24	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/13/22 14:30	10/17/22 14:24	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/13/22 14:30	10/17/22 14:24	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/13/22 14:30	10/17/22 14:24	1
Phenanthrene	ND		0.19	0.055	ug/L		10/13/22 14:30	10/17/22 14:24	1
Phenol	ND		1.0	0.49	ug/L		10/13/22 14:30	10/17/22 14:24	1
Pyrene	ND		0.19	0.054	ug/L		10/13/22 14:30	10/17/22 14:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	83		23 - 128	10/13/22 14:30	10/17/22 14:24	1
2-Fluorobiphenyl	64		20 - 105	10/13/22 14:30	10/17/22 14:24	1
2-Fluorophenol (Surr)	68		20 - 105	10/13/22 14:30	10/17/22 14:24	1
Nitrobenzene-d5 (Surr)	66		20 - 107	10/13/22 14:30	10/17/22 14:24	1
Phenol-d5 (Surr)	67		20 - 106	10/13/22 14:30	10/17/22 14:24	1
Terphenyl-d14 (Surr)	77		22 - 120	10/13/22 14:30	10/17/22 14:24	1

Lab Sample ID: LCS 180-415011/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 415242

Prep Batch: 415011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	14.0		ug/L		70	51 - 100

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# QC Sample Results

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

Job ID: 180-145919-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-415011/2-A

Matrix: Water

Analysis Batch: 415242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 415011

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,3-Dichlorobenzene	20.0	13.6		ug/L		68	51 - 100
1,4-Dichlorobenzene	20.0	13.6		ug/L		68	52 - 100
1-Methylnaphthalene	20.0	14.8		ug/L		74	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	15.8		ug/L		79	50 - 100
2,4,5-Trichlorophenol	20.0	15.3		ug/L		76	55 - 100
2,4,6-Trichlorophenol	20.0	15.2		ug/L		76	54 - 100
2,4-Dichlorophenol	20.0	15.5		ug/L		78	55 - 100
2,4-Dimethylphenol	20.0	14.6		ug/L		73	51 - 100
2,4-Dinitrophenol	40.0	15.4		ug/L		39	32 - 100
2,4-Dinitrotoluene	20.0	16.1		ug/L		81	56 - 100
2,6-Dinitrotoluene	20.0	14.6		ug/L		73	56 - 101
2-Chloronaphthalene	20.0	12.9		ug/L		65	52 - 100
2-Chlorophenol	20.0	14.3		ug/L		71	53 - 100
2-Methylnaphthalene	20.0	15.8		ug/L		79	53 - 100
2-Methylphenol	20.0	14.2		ug/L		71	51 - 100
2-Nitroaniline	20.0	15.0		ug/L		75	47 - 104
2-Nitrophenol	20.0	16.7		ug/L		83	56 - 100
3,3'-Dichlorobenzidine	20.0	13.3		ug/L		66	42 - 100
3-Nitroaniline	20.0	15.7		ug/L		78	54 - 100
4,6-Dinitro-2-methylphenol	40.0	22.7		ug/L		57	48 - 100
4-Bromophenyl phenyl ether	20.0	15.5		ug/L		78	50 - 100
4-Chloro-3-methylphenol	20.0	16.2		ug/L		81	47 - 105
4-Chloroaniline	20.0	14.6		ug/L		73	48 - 100
4-Chlorophenyl phenyl ether	20.0	14.1		ug/L		71	52 - 100
4-Nitroaniline	20.0	16.0		ug/L		80	54 - 100
4-Nitrophenol	40.0	31.7		ug/L		79	37 - 120
Acenaphthene	20.0	13.3		ug/L		66	51 - 100
Acenaphthylene	20.0	14.1		ug/L		71	54 - 100
Anthracene	20.0	15.4		ug/L		77	54 - 100
Benzo[a]anthracene	20.0	15.1		ug/L		76	52 - 100
Benzo[a]pyrene	20.0	13.4		ug/L		67	52 - 100
Benzo[b]fluoranthene	20.0	12.7		ug/L		63	50 - 100
Benzo[g,h,i]perylene	20.0	15.3		ug/L		77	53 - 100
Benzo[k]fluoranthene	20.0	12.1		ug/L		61	49 - 100
Benzoic acid	20.0	15.4		ug/L		77	31 - 122
Benzyl alcohol	20.0	14.6		ug/L		73	33 - 107
Bis(2-chloroethoxy)methane	20.0	11.9		ug/L		59	49 - 100
Bis(2-chloroethyl)ether	20.0	12.6		ug/L		63	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	14.1		ug/L		71	52 - 101
bis(chloroisopropyl) ether	20.0	12.0		ug/L		60	29 - 102
Butyl benzyl phthalate	20.0	16.2		ug/L		81	52 - 100
Chrysene	20.0	13.0		ug/L		65	51 - 100
Dibenz(a,h)anthracene	20.0	16.7		ug/L		83	52 - 101
Dibenzofuran	20.0	13.8		ug/L		69	53 - 100
Diethyl phthalate	20.0	14.6		ug/L		73	52 - 100
Dimethyl phthalate	20.0	14.6		ug/L		73	55 - 100
Di-n-butyl phthalate	20.0	16.4		ug/L		82	57 - 100
Di-n-octyl phthalate	20.0	13.3		ug/L		66	41 - 100
Fluoranthene	20.0	16.8		ug/L		84	56 - 100

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# QC Sample Results

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

Job ID: 180-145919-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-415011/2-A

Matrix: Water

Analysis Batch: 415242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 415011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluorene	20.0	14.3		ug/L		71	53 - 100
Hexachlorobenzene	20.0	15.8		ug/L		79	46 - 100
Hexachlorobutadiene	20.0	15.4		ug/L		77	42 - 101
Hexachlorocyclopentadiene	20.0	13.3		ug/L		66	38 - 102
Hexachloroethane	20.0	13.8		ug/L		69	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	15.6		ug/L		78	54 - 100
Isophorone	20.0	14.3		ug/L		71	50 - 100
Methylphenol, 3 & 4	20.0	14.4		ug/L		72	51 - 100
Naphthalene	20.0	14.1		ug/L		70	53 - 100
Nitrobenzene	20.0	13.4		ug/L		67	47 - 100
N-Nitrosodi-n-propylamine	20.0	13.7		ug/L		68	43 - 103
N-Nitrosodiphenylamine	20.0	14.2		ug/L		71	53 - 100
Phenanthrene	20.0	14.3		ug/L		71	53 - 100
Phenol	20.0	13.2		ug/L		66	49 - 100
Pyrene	20.0	13.5		ug/L		68	53 - 100

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		23 - 128
2-Fluorobiphenyl	63		20 - 105
2-Fluorophenol (Surr)	67		20 - 105
Nitrobenzene-d5 (Surr)	66		20 - 107
Phenol-d5 (Surr)	65		20 - 106
Terphenyl-d14 (Surr)	66		22 - 120

# QC Association Summary

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

Job ID: 180-145919-1

## GC/MS VOA

### Analysis Batch: 645516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-1	SUPE-W-12CR-100622	Total/NA	Water	8260C	
180-145919-2	SUPE-W-30A-100622	Total/NA	Water	8260C	
180-145919-3	SUPE-EB3-100622	Total/NA	Water	8260C	
180-145919-4	SUPE-W-10AR2-100622	Total/NA	Water	8260C	
180-145919-6	TRIP BLANK	Total/NA	Water	8260C	
MB 480-645516/7	Method Blank	Total/NA	Water	8260C	
LCS 480-645516/5	Lab Control Sample	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 415011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-1	SUPE-W-12CR-100622	Total/NA	Water	3520C	
180-145919-2	SUPE-W-30A-100622	Total/NA	Water	3520C	
180-145919-2 - DL	SUPE-W-30A-100622	Total/NA	Water	3520C	
180-145919-3	SUPE-EB3-100622	Total/NA	Water	3520C	
180-145919-4 - DL	SUPE-W-10AR2-100622	Total/NA	Water	3520C	
180-145919-4	SUPE-W-10AR2-100622	Total/NA	Water	3520C	
180-145919-5	SUPE-W-18D-100622	Total/NA	Water	3520C	
MB 180-415011/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-415011/2-A	Lab Control Sample	Total/NA	Water	3520C	

### Analysis Batch: 415242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-1	SUPE-W-12CR-100622	Total/NA	Water	EPA 8270E LL	415011
MB 180-415011/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	415011
LCS 180-415011/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	415011

### Analysis Batch: 415371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-2	SUPE-W-30A-100622	Total/NA	Water	EPA 8270E LL	415011
180-145919-3	SUPE-EB3-100622	Total/NA	Water	EPA 8270E LL	415011
180-145919-4	SUPE-W-10AR2-100622	Total/NA	Water	EPA 8270E LL	415011
180-145919-5	SUPE-W-18D-100622	Total/NA	Water	EPA 8270E LL	415011

### Analysis Batch: 415542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-2 - DL	SUPE-W-30A-100622	Total/NA	Water	EPA 8270E LL	415011
180-145919-4 - DL	SUPE-W-10AR2-100622	Total/NA	Water	EPA 8270E LL	415011

### Prep Batch: 645029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-1	SUPE-W-12CR-100622	Total/NA	Water	3510C	
180-145919-2	SUPE-W-30A-100622	Total/NA	Water	3510C	
180-145919-3	SUPE-EB3-100622	Total/NA	Water	3510C	
180-145919-4	SUPE-W-10AR2-100622	Total/NA	Water	3510C	
180-145919-5	SUPE-W-18D-100622	Total/NA	Water	3510C	
MB 480-645029/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-645029/2-A	Lab Control Sample	Total/NA	Water	3510C	
180-145919-1 MS	SUPE-W-12CR-100622	Total/NA	Water	3510C	
180-145919-1 MSD	SUPE-W-12CR-100622	Total/NA	Water	3510C	



# QC Association Summary

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

Job ID: 180-145919-1

## GC/MS Semi VOA

### Analysis Batch: 645323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145919-1	SUPE-W-12CR-100622	Total/NA	Water	8270D LL	645029
180-145919-2	SUPE-W-30A-100622	Total/NA	Water	8270D LL	645029
180-145919-3	SUPE-EB3-100622	Total/NA	Water	8270D LL	645029
180-145919-4	SUPE-W-10AR2-100622	Total/NA	Water	8270D LL	645029
180-145919-5	SUPE-W-18D-100622	Total/NA	Water	8270D LL	645029
MB 480-645029/1-A	Method Blank	Total/NA	Water	8270D LL	645029
LCS 480-645029/2-A	Lab Control Sample	Total/NA	Water	8270D LL	645029
180-145919-1 MS	SUPE-W-12CR-100622	Total/NA	Water	8270D LL	645029
180-145919-1 MSD	SUPE-W-12CR-100622	Total/NA	Water	8270D LL	645029





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502006

TestAmerica Duluth SC 269

Project Name: Superior, WI - 2022 OM&M Program      Company: Field & Technical Services      Client: Beazer East, Inc.  
 Project Number: OM-0556-22      Address: 200 Third Avenue      Contact: mferrick.2006@f-ts.com  
 Laboratory: TACHI      Carnegie, PA 15106  
 Shipment Method: Courier      (412) 279-3363  
 Program: Superior 2022 2SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					None	None		
10/06/2022	0950	GW	SUPE-W-12CR-100622	827D_SVOC (less naphtha) (Chicago)	None	None	2	
10/06/2022	1151	GW	SUPE-W-30A-100622	827D_SVOC+naphtha (Chicago) (250ml)	None	None	2	
10/06/2022	1348	GW	SUPE-EB3-100622				2	
10/06/2022	1348	GW	SUPE-W-10AR2-100622				2	
10/06/2022	1524	GW	SUPE-W-18D-100622				2	



180-145919 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS Date/Time: 10/06/2022 1558	Signature: <i>Melissa Caseon</i> Printed Name: Melissa Caseon Firm: <i>Caseon</i> Date/Time: 10/7/22 0800	Signature: <i>Melissa Caseon</i> Printed Name: <i>Melissa Caseon</i> Firm: <i>Caseon</i> Date/Time: 10/5/22 1500	Signature: <i>[Signature]</i> Printed Name: <i>[Name]</i> Firm: <i>[Firm]</i> Date/Time: 10/8/22 900	<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard







ORIGIN ID:DLHA, (715) 394-3674  
TESTAMERICA-DULUTH SVC  
63 E 2ND ST STE 100  
SUPERIOR, WI 54880  
UNITED STATES US

SHIP DATE: 07OCT22  
ACTWGT: 72.15 LB MAN  
CAD: 0669741/CAFE3612

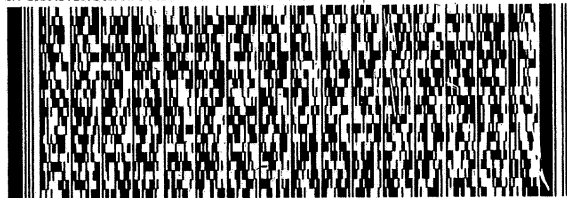
BILL RECIPIENT

TO **CARRIE GAMBER**  
**EUROFINS TESTAMERICA - PITTSBURGH**  
**301 ALPHA DR**

**PITTSBURGH PA 15238**

(318) 490-4780

REF: FTS/KOPPERS



**FedEx**  
Express



J22202203280111V

TRK# 4546 9355 9397  
0201

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

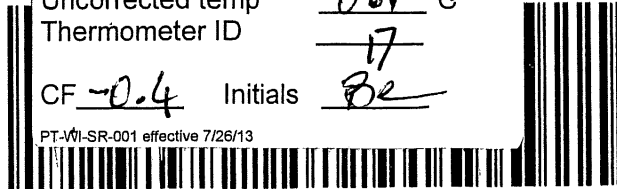
**XO AGCA**

**15238**  
PA-US **PIT**

Uncorrected temp 0.1 °C  
Thermometer ID 17

CF -0.4 Initials Be

PT-WI-SR-001 effective 7/26/13



180-145919 Waybill

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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No: 180-471267.1	
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@eurofins.com		State of Origin: Wisconsin		Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #:		180-145919-1	
Address: 10 Hazelwood Drive,		Due Date Requested: 10/31/2022		Analysis Requested:		Preservation Codes:	
City: Amherst		TAT Requested (days):		Perform MS/MSD (Yes or No)		A - HCL M - Hexane N - None B - NaOH O - AsNaO2 C - Zn Acetate P - Na2O4S D - Nitric Acid Q - Na2SO3 E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip: NY, 14228-2298		PO #:		Field Filtered Sample (Yes or No)		U - MCAA V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		WO #:		8260C/5030C (MOD) Volatiles, project list		Total Number of containers	
Email:		Project #:		8270D_LL/3510C_LL (MOD) Pentachlorophenol		Special Instructions/Note:	
Project Name: Superior, WI Semiannual Groundwater		SSOW#:		Field Filtered Sample (Yes or No)		Refer to PT-PM-WI-006 for Wisconsin Protocol	
Site:		Sample Date		Sample Time		Refer to PT-PM-WI-006 for Wisconsin Protocol	
<b>Sample Identification - Client ID (Lab ID)</b>		Sample Date		Sample Time		Refer to PT-PM-WI-006 for Wisconsin Protocol	
SUPE-W-12CR-100622 (180-145919-1)		10/6/22		09:50 Central		Refer to PT-PM-WI-006 for Wisconsin Protocol	
SUPE-W-30A-100622 (180-145919-2)		10/6/22		11:51 Central		Refer to PT-PM-WI-006 for Wisconsin Protocol	
SUPE-EB3-100622 (180-145919-3)		10/6/22		13:48 Central		Refer to PT-PM-WI-006 for Wisconsin Protocol	
SUPE-W-10AR2-100622 (180-145919-4)		10/6/22		13:48 Central		Refer to PT-PM-WI-006 for Wisconsin Protocol	
SUPE-W-18D-100622 (180-145919-5)		10/6/22		15:24 Central		Refer to PT-PM-WI-006 for Wisconsin Protocol	
TRIP BLANK (180-145919-6)		10/6/22		Central		Refer to PT-PM-WI-006 for Wisconsin Protocol	

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

**Possible Hazard Identification**

Unconfirmed  
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
Empty Kit Relinquished by: Date: Time: Method of Shipment: Archive For Months

Relinquished by: Date: Time: Received by: Date/Time: Company: JAB

Relinquished by: Date: Time: Received by: Date/Time: Company:

Relinquished by: Date: Time: Received by: Date/Time: Company:

Custody Seals Intact: Custody Seal No.:  
 Δ Yes Δ No  
 Cooler Temperature(s) °C and Other Remarks: 20 21 ICE



## Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-145919-1

**Login Number: 145919**

**List Number: 1**

**Creator: Abernathy, Eric L**

**List Source: Eurofins Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-145919-1

**Login Number: 145919**

**List Number: 2**

**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

**List Creation: 10/11/22 12:33 PM**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 2.1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	





## ANALYTICAL REPORT

Eurofins Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-145920-1

Client Project/Site: Superior, WI Semiannual Groundwater

For:

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

Attn: Ms. Angie Gatchie



Authorized for release by:  
10/20/2022 3:58:15 PM

Shali Brown, Project Manager II  
(615)301-5031  
[Shali.Brown@et.eurofinsus.com](mailto:Shali.Brown@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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.

PA Lab ID: 02-00416



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# Case Narrative

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

Job ID: 180-145920-1

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## Job ID: 180-145920-1

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### Laboratory: Eurofins Pittsburgh

#### Narrative

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#### Job Narrative 180-145920-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/8/2022 12:59 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

#### GC/MS VOA

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

#### GC/MS Semi VOA

Method 8270E LL: The continuing calibration verification (CCV) associated with batch 180-415201 recovered above the upper control limit for 2-Nitroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: CCVIS 180-415201/3.

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

#### Organic Prep

Method 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: SUPE-M-099A-100522 and SUPE-W-04AR2-100522.

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



# Definitions/Glossary

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

Job ID: 180-145920-1

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

## Glossary

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

# Accreditation/Certification Summary

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

Job ID: 180-145920-1

## Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998027800	08-31-23

## Laboratory: Eurofins Buffalo

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

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

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# Sample Summary

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

Job ID: 180-145920-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-145920-1	SUPE-M-099A-100522	Water	10/05/22 13:00	10/08/22 12:59
180-145920-2	SUPE-W-28C-100522	Water	10/05/22 17:51	10/08/22 12:59
180-145920-3	SUPE-W-04AR2-100522	Water	10/05/22 19:25	10/08/22 12:59
180-145920-4	SUPE-EB2-100522	Water	10/05/22 19:45	10/08/22 12:59
180-145920-5	TRIP BLANK	Water	10/05/22 00:00	10/08/22 12:59

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# Method Summary

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

Job ID: 180-145920-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET BUF
EPA 8270E LL	Semivolatile Organic Compounds (GC/MS)	SW846	EET PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET PIT
5030C	Purge and Trap	SW846	EET BUF

#### Protocol References:

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

#### Laboratory References:

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

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-M-099A-100522**

**Lab Sample ID: 180-145920-1**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/08/22 12:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645606	10/15/22 12:18	AXK	EET BUF
Instrument ID: HP5975D										
Total/NA	Prep	3510C			870 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/14/22 01:30	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			240 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415201	10/15/22 14:30	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-W-28C-100522**

**Lab Sample ID: 180-145920-2**

Date Collected: 10/05/22 17:51

Matrix: Water

Date Received: 10/08/22 12:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645606	10/15/22 12:41	AXK	EET BUF
Instrument ID: HP5975D										
Total/NA	Prep	3510C			1030 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/14/22 01:58	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415201	10/15/22 14:52	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-W-04AR2-100522**

**Lab Sample ID: 180-145920-3**

Date Collected: 10/05/22 19:25

Matrix: Water

Date Received: 10/08/22 12:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645606	10/15/22 13:03	AXK	EET BUF
Instrument ID: HP5975D										
Total/NA	Prep	3510C			870 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	645323	10/14/22 02:26	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			240 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415201	10/15/22 15:13	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: SUPE-EB2-100522**

**Lab Sample ID: 180-145920-4**

Date Collected: 10/05/22 19:45

Matrix: Water

Date Received: 10/08/22 12:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645606	10/15/22 13:26	AXK	EET BUF
Instrument ID: HP5975D										



# Lab Chronicle

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-EB2-100522**

**Lab Sample ID: 180-145920-4**

**Date Collected: 10/05/22 19:45**

**Matrix: Water**

**Date Received: 10/08/22 12:59**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			930 mL	1 mL	645029	10/12/22 09:00	JMP	EET BUF
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	645323	10/14/22 02:54	RJS	EET BUF
Instrument ID: HP5973Y										
Total/NA	Prep	3520C			230 mL	250 uL	414851	10/12/22 13:18	BJT	EET PIT
Total/NA	Analysis	EPA 8270E LL		1	1 mL	1 mL	415201	10/15/22 15:34	VVP	EET PIT
Instrument ID: CH733										

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 180-145920-5**

**Date Collected: 10/05/22 00:00**

**Matrix: Water**

**Date Received: 10/08/22 12:59**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	645606	10/15/22 13:48	AXK	EET BUF
Instrument ID: HP5975D										

### Laboratory References:

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

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

### Analyst References:

Lab: EET BUF

Batch Type: Prep

JMP = Jacob Pollock

Batch Type: Analysis

AXK = Ahmad Kiwan

RJS = Robert Schick

Lab: EET PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

VVP = Vincent Piccolino

# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-M-099A-100522**

**Lab Sample ID: 180-145920-1**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/08/22 12:59

## Method: SW846 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			10/15/22 12:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 12:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 12:18	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 12:18	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 12:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 12:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 12:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 12:18	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 12:18	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 12:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 12:18	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 12:18	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 12:18	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 12:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					10/15/22 12:18	1
4-Bromofluorobenzene (Surr)	102		73 - 120					10/15/22 12:18	1
Dibromofluoromethane (Surr)	99		75 - 123					10/15/22 12:18	1
Toluene-d8 (Surr)	99		80 - 120					10/15/22 12:18	1

## Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.1	0.39	ug/L		10/12/22 09:00	10/14/22 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		24 - 146				10/12/22 09:00	10/14/22 01:30	1
2-Fluorobiphenyl	101		37 - 120				10/12/22 09:00	10/14/22 01:30	1
2-Fluorophenol (Surr)	54		10 - 120				10/12/22 09:00	10/14/22 01:30	1
Nitrobenzene-d5 (Surr)	78		26 - 120				10/12/22 09:00	10/14/22 01:30	1
Phenol-d5 (Surr)	37		11 - 120				10/12/22 09:00	10/14/22 01:30	1
p-Terphenyl-d14	100		64 - 127				10/12/22 09:00	10/14/22 01:30	1

## Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.14	ug/L		10/12/22 13:18	10/15/22 14:30	1
1,2-Dichlorobenzene	ND		1.0	0.099	ug/L		10/12/22 13:18	10/15/22 14:30	1
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L		10/12/22 13:18	10/15/22 14:30	1
1,4-Dichlorobenzene	ND		1.0	0.064	ug/L		10/12/22 13:18	10/15/22 14:30	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,4-Dinitrophenol	ND		10	1.6	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		10/12/22 13:18	10/15/22 14:30	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		10/12/22 13:18	10/15/22 14:30	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-M-099A-100522**

**Lab Sample ID: 180-145920-1**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.20	0.061	ug/L		10/12/22 13:18	10/15/22 14:30	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/12/22 13:18	10/15/22 14:30	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		10/12/22 13:18	10/15/22 14:30	1
2-Methylphenol	ND		1.0	0.31	ug/L		10/12/22 13:18	10/15/22 14:30	1
2-Nitroaniline	ND		5.2	0.57	ug/L		10/12/22 13:18	10/15/22 14:30	1
2-Nitrophenol	ND		1.0	0.20	ug/L		10/12/22 13:18	10/15/22 14:30	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		10/12/22 13:18	10/15/22 14:30	1
3-Nitroaniline	ND		5.2	0.46	ug/L		10/12/22 13:18	10/15/22 14:30	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		10/12/22 13:18	10/15/22 14:30	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		10/12/22 13:18	10/15/22 14:30	1
4-Chloro-3-methylphenol	ND		1.0	0.29	ug/L		10/12/22 13:18	10/15/22 14:30	1
4-Chloroaniline	ND		1.0	0.39	ug/L		10/12/22 13:18	10/15/22 14:30	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		10/12/22 13:18	10/15/22 14:30	1
4-Nitroaniline	ND		5.2	0.38	ug/L		10/12/22 13:18	10/15/22 14:30	1
4-Nitrophenol	ND		5.2	0.98	ug/L		10/12/22 13:18	10/15/22 14:30	1
Acenaphthene	ND		0.20	0.068	ug/L		10/12/22 13:18	10/15/22 14:30	1
Acenaphthylene	ND		0.20	0.068	ug/L		10/12/22 13:18	10/15/22 14:30	1
Anthracene	ND		0.20	0.051	ug/L		10/12/22 13:18	10/15/22 14:30	1
Benzo[a]anthracene	ND		0.20	0.078	ug/L		10/12/22 13:18	10/15/22 14:30	1
Benzo[a]pyrene	ND		0.20	0.055	ug/L		10/12/22 13:18	10/15/22 14:30	1
Benzo[b]fluoranthene	ND		0.20	0.10	ug/L		10/12/22 13:18	10/15/22 14:30	1
Benzo[g,h,i]perylene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/15/22 14:30	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		10/12/22 13:18	10/15/22 14:30	1
Benzoic acid	ND		5.2	0.96	ug/L		10/12/22 13:18	10/15/22 14:30	1
<b>Benzyl alcohol</b>	<b>0.39</b>	<b>J</b>	1.0	0.17	ug/L		10/12/22 13:18	10/15/22 14:30	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		10/12/22 13:18	10/15/22 14:30	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		10/12/22 13:18	10/15/22 14:30	1
Bis(2-ethylhexyl) phthalate	ND		10	6.5	ug/L		10/12/22 13:18	10/15/22 14:30	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		10/12/22 13:18	10/15/22 14:30	1
Butyl benzyl phthalate	ND		1.0	0.48	ug/L		10/12/22 13:18	10/15/22 14:30	1
Chrysene	ND		0.20	0.084	ug/L		10/12/22 13:18	10/15/22 14:30	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		10/12/22 13:18	10/15/22 14:30	1
Dibenzofuran	ND		1.0	0.20	ug/L		10/12/22 13:18	10/15/22 14:30	1
Diethyl phthalate	ND		1.0	0.59	ug/L		10/12/22 13:18	10/15/22 14:30	1
Dimethyl phthalate	ND		1.0	0.21	ug/L		10/12/22 13:18	10/15/22 14:30	1
<b>Di-n-butyl phthalate</b>	<b>1.3</b>		1.0	0.77	ug/L		10/12/22 13:18	10/15/22 14:30	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		10/12/22 13:18	10/15/22 14:30	1
<b>Fluoranthene</b>	<b>0.098</b>	<b>J</b>	0.20	0.063	ug/L		10/12/22 13:18	10/15/22 14:30	1
Fluorene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/15/22 14:30	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		10/12/22 13:18	10/15/22 14:30	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/15/22 14:30	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		10/12/22 13:18	10/15/22 14:30	1
Hexachloroethane	ND		1.0	0.14	ug/L		10/12/22 13:18	10/15/22 14:30	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		10/12/22 13:18	10/15/22 14:30	1
Isophorone	ND		1.0	0.20	ug/L		10/12/22 13:18	10/15/22 14:30	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		10/12/22 13:18	10/15/22 14:30	1
Nitrobenzene	ND		2.1	0.52	ug/L		10/12/22 13:18	10/15/22 14:30	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		10/12/22 13:18	10/15/22 14:30	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/12/22 13:18	10/15/22 14:30	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-M-099A-100522**

**Lab Sample ID: 180-145920-1**

Date Collected: 10/05/22 13:00

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.12	J	0.20	0.057	ug/L		10/12/22 13:18	10/15/22 14:30	1
Phenol	ND		1.0	0.51	ug/L		10/12/22 13:18	10/15/22 14:30	1
Pyrene	0.062	J	0.20	0.056	ug/L		10/12/22 13:18	10/15/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	42		23 - 128				10/12/22 13:18	10/15/22 14:30	1
2-Fluorobiphenyl	41		20 - 105				10/12/22 13:18	10/15/22 14:30	1
2-Fluorophenol (Surr)	41		20 - 105				10/12/22 13:18	10/15/22 14:30	1
Nitrobenzene-d5 (Surr)	49		20 - 107				10/12/22 13:18	10/15/22 14:30	1
Phenol-d5 (Surr)	44		20 - 106				10/12/22 13:18	10/15/22 14:30	1
Terphenyl-d14 (Surr)	44		22 - 120				10/12/22 13:18	10/15/22 14:30	1

**Client Sample ID: SUPE-W-28C-100522**

**Lab Sample ID: 180-145920-2**

Date Collected: 10/05/22 17:51

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 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			10/15/22 12:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 12:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 12:41	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 12:41	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 12:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 12:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 12:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 12:41	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 12:41	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 12:41	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 12:41	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 12:41	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 12:41	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 12:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					10/15/22 12:41	1
4-Bromofluorobenzene (Surr)	101		73 - 120					10/15/22 12:41	1
Dibromofluoromethane (Surr)	100		75 - 123					10/15/22 12:41	1
Toluene-d8 (Surr)	99		80 - 120					10/15/22 12:41	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.97	0.33	ug/L		10/12/22 09:00	10/14/22 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		24 - 146				10/12/22 09:00	10/14/22 01:58	1
2-Fluorobiphenyl	101		37 - 120				10/12/22 09:00	10/14/22 01:58	1
2-Fluorophenol (Surr)	50		10 - 120				10/12/22 09:00	10/14/22 01:58	1
Nitrobenzene-d5 (Surr)	77		26 - 120				10/12/22 09:00	10/14/22 01:58	1
Phenol-d5 (Surr)	34		11 - 120				10/12/22 09:00	10/14/22 01:58	1
p-Terphenyl-d14	96		64 - 127				10/12/22 09:00	10/14/22 01:58	1

Eurofins Pittsburgh

# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-W-28C-100522**

**Lab Sample ID: 180-145920-2**

Date Collected: 10/05/22 17:51

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 14:52	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/12/22 13:18	10/15/22 14:52	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/12/22 13:18	10/15/22 14:52	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/12/22 13:18	10/15/22 14:52	1
1-Methylnaphthalene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,4-Dinitrophenol	ND		11	1.7	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/12/22 13:18	10/15/22 14:52	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/12/22 13:18	10/15/22 14:52	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/12/22 13:18	10/15/22 14:52	1
2-Chlorophenol	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 14:52	1
2-Methylnaphthalene	ND		0.21	0.067	ug/L		10/12/22 13:18	10/15/22 14:52	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/12/22 13:18	10/15/22 14:52	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/12/22 13:18	10/15/22 14:52	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/12/22 13:18	10/15/22 14:52	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/12/22 13:18	10/15/22 14:52	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/12/22 13:18	10/15/22 14:52	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/12/22 13:18	10/15/22 14:52	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/12/22 13:18	10/15/22 14:52	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/12/22 13:18	10/15/22 14:52	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/12/22 13:18	10/15/22 14:52	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/12/22 13:18	10/15/22 14:52	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/12/22 13:18	10/15/22 14:52	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/12/22 13:18	10/15/22 14:52	1
Acenaphthene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/15/22 14:52	1
Acenaphthylene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/15/22 14:52	1
Anthracene	ND		0.21	0.053	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzoic acid	ND		5.4	1.0	ug/L		10/12/22 13:18	10/15/22 14:52	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/15/22 14:52	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/12/22 13:18	10/15/22 14:52	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/12/22 13:18	10/15/22 14:52	1
Bis(2-ethylhexyl) phthalate	ND		11	6.8	ug/L		10/12/22 13:18	10/15/22 14:52	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/12/22 13:18	10/15/22 14:52	1
<b>Butyl benzyl phthalate</b>	<b>0.53</b>	<b>J</b>	1.1	0.50	ug/L		10/12/22 13:18	10/15/22 14:52	1
Chrysene	ND		0.21	0.088	ug/L		10/12/22 13:18	10/15/22 14:52	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/12/22 13:18	10/15/22 14:52	1
Dibenzofuran	ND		1.1	0.21	ug/L		10/12/22 13:18	10/15/22 14:52	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/12/22 13:18	10/15/22 14:52	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/12/22 13:18	10/15/22 14:52	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-W-28C-100522**

**Lab Sample ID: 180-145920-2**

Date Collected: 10/05/22 17:51

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Di-n-butyl phthalate</b>	<b>1.4</b>		1.1	0.81	ug/L		10/12/22 13:18	10/15/22 14:52	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/12/22 13:18	10/15/22 14:52	1
Fluoranthene	ND		0.21	0.065	ug/L		10/12/22 13:18	10/15/22 14:52	1
Fluorene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 14:52	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/15/22 14:52	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 14:52	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/12/22 13:18	10/15/22 14:52	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 14:52	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/12/22 13:18	10/15/22 14:52	1
Isophorone	ND		1.1	0.20	ug/L		10/12/22 13:18	10/15/22 14:52	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/12/22 13:18	10/15/22 14:52	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/12/22 13:18	10/15/22 14:52	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/12/22 13:18	10/15/22 14:52	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/12/22 13:18	10/15/22 14:52	1
<b>Phenanthrene</b>	<b>0.23</b>		0.21	0.060	ug/L		10/12/22 13:18	10/15/22 14:52	1
Phenol	ND		1.1	0.53	ug/L		10/12/22 13:18	10/15/22 14:52	1
Pyrene	ND		0.21	0.059	ug/L		10/12/22 13:18	10/15/22 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		23 - 128	10/12/22 13:18	10/15/22 14:52	1
2-Fluorobiphenyl	54		20 - 105	10/12/22 13:18	10/15/22 14:52	1
2-Fluorophenol (Surr)	53		20 - 105	10/12/22 13:18	10/15/22 14:52	1
Nitrobenzene-d5 (Surr)	66		20 - 107	10/12/22 13:18	10/15/22 14:52	1
Phenol-d5 (Surr)	57		20 - 106	10/12/22 13:18	10/15/22 14:52	1
Terphenyl-d14 (Surr)	64		22 - 120	10/12/22 13:18	10/15/22 14:52	1

**Client Sample ID: SUPE-W-04AR2-100522**

**Lab Sample ID: 180-145920-3**

Date Collected: 10/05/22 19:25

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 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			10/15/22 13:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 13:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 13:03	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 13:03	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 13:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 13:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 13:03	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 13:03	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 13:03	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 13:03	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 13:03	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 13:03	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 13:03	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 13:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/15/22 13:03	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-W-04AR2-100522**

**Lab Sample ID: 180-145920-3**

Date Collected: 10/05/22 19:25

Matrix: Water

Date Received: 10/08/22 12:59

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		73 - 120		10/15/22 13:03	1
Dibromofluoromethane (Surr)	102		75 - 123		10/15/22 13:03	1
Toluene-d8 (Surr)	100		80 - 120		10/15/22 13:03	1

**Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.7	2.0	ug/L		10/12/22 09:00	10/14/22 02:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		24 - 146	10/12/22 09:00	10/14/22 02:26	5
2-Fluorobiphenyl	73		37 - 120	10/12/22 09:00	10/14/22 02:26	5
2-Fluorophenol (Surr)	32		10 - 120	10/12/22 09:00	10/14/22 02:26	5
Nitrobenzene-d5 (Surr)	53		26 - 120	10/12/22 09:00	10/14/22 02:26	5
Phenol-d5 (Surr)	19		11 - 120	10/12/22 09:00	10/14/22 02:26	5
p-Terphenyl-d14	71		64 - 127	10/12/22 09:00	10/14/22 02:26	5

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.14	ug/L		10/12/22 13:18	10/15/22 15:13	1
1,2-Dichlorobenzene	ND		1.0	0.099	ug/L		10/12/22 13:18	10/15/22 15:13	1
1,3-Dichlorobenzene	ND		1.0	0.10	ug/L		10/12/22 13:18	10/15/22 15:13	1
1,4-Dichlorobenzene	ND		1.0	0.064	ug/L		10/12/22 13:18	10/15/22 15:13	1
1-Methylnaphthalene	ND		0.20	0.058	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.34	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.53	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,4,5-Trichlorophenol	ND		1.0	0.26	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,4,6-Trichlorophenol	ND		1.0	0.23	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,4-Dichlorophenol	ND		0.20	0.053	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,4-Dinitrophenol	ND		10	1.6	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,4-Dinitrotoluene	ND		1.0	0.37	ug/L		10/12/22 13:18	10/15/22 15:13	1
2,6-Dinitrotoluene	ND		1.0	0.18	ug/L		10/12/22 13:18	10/15/22 15:13	1
2-Chloronaphthalene	ND		0.20	0.061	ug/L		10/12/22 13:18	10/15/22 15:13	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/12/22 13:18	10/15/22 15:13	1
2-Methylnaphthalene	ND		0.20	0.065	ug/L		10/12/22 13:18	10/15/22 15:13	1
2-Methylphenol	ND		1.0	0.31	ug/L		10/12/22 13:18	10/15/22 15:13	1
2-Nitroaniline	ND		5.2	0.57	ug/L		10/12/22 13:18	10/15/22 15:13	1
2-Nitrophenol	ND		1.0	0.20	ug/L		10/12/22 13:18	10/15/22 15:13	1
3,3'-Dichlorobenzidine	ND		1.0	0.61	ug/L		10/12/22 13:18	10/15/22 15:13	1
3-Nitroaniline	ND		5.2	0.46	ug/L		10/12/22 13:18	10/15/22 15:13	1
4,6-Dinitro-2-methylphenol	ND		5.2	1.5	ug/L		10/12/22 13:18	10/15/22 15:13	1
4-Bromophenyl phenyl ether	ND		1.0	0.33	ug/L		10/12/22 13:18	10/15/22 15:13	1
4-Chloro-3-methylphenol	ND		1.0	0.29	ug/L		10/12/22 13:18	10/15/22 15:13	1
4-Chloroaniline	ND		1.0	0.39	ug/L		10/12/22 13:18	10/15/22 15:13	1
4-Chlorophenyl phenyl ether	ND		1.0	0.23	ug/L		10/12/22 13:18	10/15/22 15:13	1
4-Nitroaniline	ND		5.2	0.38	ug/L		10/12/22 13:18	10/15/22 15:13	1
4-Nitrophenol	ND		5.2	0.98	ug/L		10/12/22 13:18	10/15/22 15:13	1
Acenaphthene	ND		0.20	0.068	ug/L		10/12/22 13:18	10/15/22 15:13	1
Acenaphthylene	ND		0.20	0.068	ug/L		10/12/22 13:18	10/15/22 15:13	1
<b>Anthracene</b>	<b>1.3</b>		0.20	0.051	ug/L		10/12/22 13:18	10/15/22 15:13	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-W-04AR2-100522**

**Lab Sample ID: 180-145920-3**

Date Collected: 10/05/22 19:25

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.091	J	0.20	0.078	ug/L		10/12/22 13:18	10/15/22 15:13	1
Benzo[a]pyrene	0.061	J	0.20	0.055	ug/L		10/12/22 13:18	10/15/22 15:13	1
Benzo[b]fluoranthene	0.20		0.20	0.10	ug/L		10/12/22 13:18	10/15/22 15:13	1
Benzo[g,h,i]perylene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/15/22 15:13	1
Benzo[k]fluoranthene	ND		0.20	0.092	ug/L		10/12/22 13:18	10/15/22 15:13	1
Benzoic acid	1.4	J	5.2	0.96	ug/L		10/12/22 13:18	10/15/22 15:13	1
Benzyl alcohol	0.57	J	1.0	0.17	ug/L		10/12/22 13:18	10/15/22 15:13	1
Bis(2-chloroethoxy)methane	ND		1.0	0.16	ug/L		10/12/22 13:18	10/15/22 15:13	1
Bis(2-chloroethyl)ether	ND		0.20	0.042	ug/L		10/12/22 13:18	10/15/22 15:13	1
Bis(2-ethylhexyl) phthalate	15		10	6.5	ug/L		10/12/22 13:18	10/15/22 15:13	1
bis(chloroisopropyl) ether	ND		0.20	0.060	ug/L		10/12/22 13:18	10/15/22 15:13	1
Butyl benzyl phthalate	1.3		1.0	0.48	ug/L		10/12/22 13:18	10/15/22 15:13	1
Chrysene	0.16	J	0.20	0.084	ug/L		10/12/22 13:18	10/15/22 15:13	1
Dibenz(a,h)anthracene	ND		0.20	0.075	ug/L		10/12/22 13:18	10/15/22 15:13	1
Dibenzofuran	ND		1.0	0.20	ug/L		10/12/22 13:18	10/15/22 15:13	1
Diethyl phthalate	0.61	J	1.0	0.59	ug/L		10/12/22 13:18	10/15/22 15:13	1
Dimethyl phthalate	ND		1.0	0.21	ug/L		10/12/22 13:18	10/15/22 15:13	1
Di-n-butyl phthalate	2.0		1.0	0.77	ug/L		10/12/22 13:18	10/15/22 15:13	1
Di-n-octyl phthalate	ND		1.0	0.71	ug/L		10/12/22 13:18	10/15/22 15:13	1
Fluoranthene	0.24		0.20	0.063	ug/L		10/12/22 13:18	10/15/22 15:13	1
Fluorene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/15/22 15:13	1
Hexachlorobenzene	ND		0.20	0.058	ug/L		10/12/22 13:18	10/15/22 15:13	1
Hexachlorobutadiene	ND		0.20	0.072	ug/L		10/12/22 13:18	10/15/22 15:13	1
Hexachlorocyclopentadiene	ND		1.0	0.52	ug/L		10/12/22 13:18	10/15/22 15:13	1
Hexachloroethane	ND		1.0	0.14	ug/L		10/12/22 13:18	10/15/22 15:13	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.089	ug/L		10/12/22 13:18	10/15/22 15:13	1
Isophorone	ND		1.0	0.20	ug/L		10/12/22 13:18	10/15/22 15:13	1
Methylphenol, 3 & 4	ND		1.0	0.39	ug/L		10/12/22 13:18	10/15/22 15:13	1
Nitrobenzene	ND		2.1	0.52	ug/L		10/12/22 13:18	10/15/22 15:13	1
N-Nitrosodi-n-propylamine	ND		0.20	0.074	ug/L		10/12/22 13:18	10/15/22 15:13	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/12/22 13:18	10/15/22 15:13	1
Phenanthrene	0.36		0.20	0.057	ug/L		10/12/22 13:18	10/15/22 15:13	1
Phenol	ND		1.0	0.51	ug/L		10/12/22 13:18	10/15/22 15:13	1
Pyrene	0.14	J	0.20	0.056	ug/L		10/12/22 13:18	10/15/22 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		23 - 128	10/12/22 13:18	10/15/22 15:13	1
2-Fluorobiphenyl	60		20 - 105	10/12/22 13:18	10/15/22 15:13	1
2-Fluorophenol (Surr)	54		20 - 105	10/12/22 13:18	10/15/22 15:13	1
Nitrobenzene-d5 (Surr)	73		20 - 107	10/12/22 13:18	10/15/22 15:13	1
Phenol-d5 (Surr)	59		20 - 106	10/12/22 13:18	10/15/22 15:13	1
Terphenyl-d14 (Surr)	77		22 - 120	10/12/22 13:18	10/15/22 15:13	1

**Client Sample ID: SUPE-EB2-100522**

**Lab Sample ID: 180-145920-4**

Date Collected: 10/05/22 19:45

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 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			10/15/22 13:26	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-EB2-100522**

**Lab Sample ID: 180-145920-4**

Date Collected: 10/05/22 19:45

Matrix: Water

Date Received: 10/08/22 12:59

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 13:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 13:26	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 13:26	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 13:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 13:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 13:26	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 13:26	1
<b>Naphthalene</b>	<b>0.86</b>	<b>J</b>	1.0	0.43	ug/L			10/15/22 13:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 13:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 13:26	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 13:26	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 13:26	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 13:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/15/22 13:26	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/15/22 13:26	1
Dibromofluoromethane (Surr)	101		75 - 123		10/15/22 13:26	1
Toluene-d8 (Surr)	98		80 - 120		10/15/22 13:26	1

## Method: SW846 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.1	0.37	ug/L		10/12/22 09:00	10/14/22 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		24 - 146	10/12/22 09:00	10/14/22 02:54	1
2-Fluorobiphenyl	98		37 - 120	10/12/22 09:00	10/14/22 02:54	1
2-Fluorophenol (Surr)	49		10 - 120	10/12/22 09:00	10/14/22 02:54	1
Nitrobenzene-d5 (Surr)	77		26 - 120	10/12/22 09:00	10/14/22 02:54	1
Phenol-d5 (Surr)	34		11 - 120	10/12/22 09:00	10/14/22 02:54	1
p-Terphenyl-d14	103		64 - 127	10/12/22 09:00	10/14/22 02:54	1

## Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 15:34	1
1,2-Dichlorobenzene	ND		1.1	0.10	ug/L		10/12/22 13:18	10/15/22 15:34	1
1,3-Dichlorobenzene	ND		1.1	0.11	ug/L		10/12/22 13:18	10/15/22 15:34	1
1,4-Dichlorobenzene	ND		1.1	0.066	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>1-Methylnaphthalene</b>	<b>0.081</b>	<b>J</b>	0.21	0.061	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,3,4,6-Tetrachlorophenol	ND		1.1	0.35	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,3,5,6-Tetrachlorophenol	ND		1.1	0.55	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,4,5-Trichlorophenol	ND		1.1	0.27	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,4,6-Trichlorophenol	ND		1.1	0.24	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,4-Dichlorophenol	ND		0.21	0.055	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,4-Dimethylphenol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,4-Dinitrophenol	ND		1.1	1.7	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,4-Dinitrotoluene	ND		1.1	0.38	ug/L		10/12/22 13:18	10/15/22 15:34	1
2,6-Dinitrotoluene	ND		1.1	0.19	ug/L		10/12/22 13:18	10/15/22 15:34	1
2-Chloronaphthalene	ND		0.21	0.064	ug/L		10/12/22 13:18	10/15/22 15:34	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-EB2-100522**

**Lab Sample ID: 180-145920-4**

Date Collected: 10/05/22 19:45

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>2-Methylnaphthalene</b>	<b>0.17</b>	<b>J</b>	0.21	0.067	ug/L		10/12/22 13:18	10/15/22 15:34	1
2-Methylphenol	ND		1.1	0.33	ug/L		10/12/22 13:18	10/15/22 15:34	1
2-Nitroaniline	ND		5.4	0.60	ug/L		10/12/22 13:18	10/15/22 15:34	1
2-Nitrophenol	ND		1.1	0.21	ug/L		10/12/22 13:18	10/15/22 15:34	1
3,3'-Dichlorobenzidine	ND		1.1	0.63	ug/L		10/12/22 13:18	10/15/22 15:34	1
3-Nitroaniline	ND		5.4	0.48	ug/L		10/12/22 13:18	10/15/22 15:34	1
4,6-Dinitro-2-methylphenol	ND		5.4	1.6	ug/L		10/12/22 13:18	10/15/22 15:34	1
4-Bromophenyl phenyl ether	ND		1.1	0.35	ug/L		10/12/22 13:18	10/15/22 15:34	1
4-Chloro-3-methylphenol	ND		1.1	0.30	ug/L		10/12/22 13:18	10/15/22 15:34	1
4-Chloroaniline	ND		1.1	0.41	ug/L		10/12/22 13:18	10/15/22 15:34	1
4-Chlorophenyl phenyl ether	ND		1.1	0.24	ug/L		10/12/22 13:18	10/15/22 15:34	1
4-Nitroaniline	ND		5.4	0.39	ug/L		10/12/22 13:18	10/15/22 15:34	1
4-Nitrophenol	ND		5.4	1.0	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Acenaphthene</b>	<b>0.21</b>		0.21	0.071	ug/L		10/12/22 13:18	10/15/22 15:34	1
Acenaphthylene	ND		0.21	0.071	ug/L		10/12/22 13:18	10/15/22 15:34	1
Anthracene	ND		0.21	0.053	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzo[a]anthracene	ND		0.21	0.082	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzo[b]fluoranthene	ND		0.21	0.11	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzo[g,h,i]perylene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzo[k]fluoranthene	ND		0.21	0.096	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzoic acid	ND		5.4	1.0	ug/L		10/12/22 13:18	10/15/22 15:34	1
Benzyl alcohol	ND		1.1	0.18	ug/L		10/12/22 13:18	10/15/22 15:34	1
Bis(2-chloroethoxy)methane	ND		1.1	0.17	ug/L		10/12/22 13:18	10/15/22 15:34	1
Bis(2-chloroethyl)ether	ND		0.21	0.043	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>11</b>		11	6.8	ug/L		10/12/22 13:18	10/15/22 15:34	1
bis(chloroisopropyl) ether	ND		0.21	0.063	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Butyl benzyl phthalate</b>	<b>1.2</b>		1.1	0.50	ug/L		10/12/22 13:18	10/15/22 15:34	1
Chrysene	ND		0.21	0.088	ug/L		10/12/22 13:18	10/15/22 15:34	1
Dibenz(a,h)anthracene	ND		0.21	0.078	ug/L		10/12/22 13:18	10/15/22 15:34	1
Dibenzofuran	ND		1.1	0.21	ug/L		10/12/22 13:18	10/15/22 15:34	1
Diethyl phthalate	ND		1.1	0.62	ug/L		10/12/22 13:18	10/15/22 15:34	1
Dimethyl phthalate	ND		1.1	0.22	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Di-n-butyl phthalate</b>	<b>1.7</b>		1.1	0.81	ug/L		10/12/22 13:18	10/15/22 15:34	1
Di-n-octyl phthalate	ND		1.1	0.74	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Fluoranthene</b>	<b>0.12</b>	<b>J</b>	0.21	0.065	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Fluorene</b>	<b>0.12</b>	<b>J</b>	0.21	0.075	ug/L		10/12/22 13:18	10/15/22 15:34	1
Hexachlorobenzene	ND		0.21	0.061	ug/L		10/12/22 13:18	10/15/22 15:34	1
Hexachlorobutadiene	ND		0.21	0.075	ug/L		10/12/22 13:18	10/15/22 15:34	1
Hexachlorocyclopentadiene	ND		1.1	0.54	ug/L		10/12/22 13:18	10/15/22 15:34	1
Hexachloroethane	ND		1.1	0.14	ug/L		10/12/22 13:18	10/15/22 15:34	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.092	ug/L		10/12/22 13:18	10/15/22 15:34	1
Isophorone	ND		1.1	0.20	ug/L		10/12/22 13:18	10/15/22 15:34	1
Methylphenol, 3 & 4	ND		1.1	0.40	ug/L		10/12/22 13:18	10/15/22 15:34	1
Nitrobenzene	ND		2.2	0.54	ug/L		10/12/22 13:18	10/15/22 15:34	1
N-Nitrosodi-n-propylamine	ND		0.21	0.077	ug/L		10/12/22 13:18	10/15/22 15:34	1
N-Nitrosodiphenylamine	ND		1.1	0.13	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Phenanthrene</b>	<b>0.30</b>		0.21	0.060	ug/L		10/12/22 13:18	10/15/22 15:34	1

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# Client Sample Results

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

Job ID: 180-145920-1

**Client Sample ID: SUPE-EB2-100522**

**Lab Sample ID: 180-145920-4**

Date Collected: 10/05/22 19:45

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		1.1	0.53	ug/L		10/12/22 13:18	10/15/22 15:34	1
<b>Pyrene</b>	<b>0.073</b>	<b>J</b>	0.21	0.059	ug/L		10/12/22 13:18	10/15/22 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		23 - 128				10/12/22 13:18	10/15/22 15:34	1
2-Fluorobiphenyl	55		20 - 105				10/12/22 13:18	10/15/22 15:34	1
2-Fluorophenol (Surr)	53		20 - 105				10/12/22 13:18	10/15/22 15:34	1
Nitrobenzene-d5 (Surr)	66		20 - 107				10/12/22 13:18	10/15/22 15:34	1
Phenol-d5 (Surr)	56		20 - 106				10/12/22 13:18	10/15/22 15:34	1
Terphenyl-d14 (Surr)	72		22 - 120				10/12/22 13:18	10/15/22 15:34	1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 180-145920-5**

Date Collected: 10/05/22 00:00

Matrix: Water

Date Received: 10/08/22 12:59

**Method: SW846 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			10/15/22 13:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 13:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 13:48	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 13:48	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 13:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 13:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 13:48	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 13:48	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 13:48	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 13:48	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 13:48	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 13:48	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 13:48	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 13:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					10/15/22 13:48	1
4-Bromofluorobenzene (Surr)	102		73 - 120					10/15/22 13:48	1
Dibromofluoromethane (Surr)	100		75 - 123					10/15/22 13:48	1
Toluene-d8 (Surr)	100		80 - 120					10/15/22 13:48	1

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# QC Sample Results

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

Job ID: 180-145920-1

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

**Lab Sample ID: MB 480-645606/7**  
**Matrix: Water**  
**Analysis Batch: 645606**

**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			10/15/22 11:49	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			10/15/22 11:49	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			10/15/22 11:49	1
Benzene	ND		1.0	0.41	ug/L			10/15/22 11:49	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/22 11:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/22 11:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/22 11:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/15/22 11:49	1
Naphthalene	ND		1.0	0.43	ug/L			10/15/22 11:49	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/15/22 11:49	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/15/22 11:49	1
o-Xylene	ND		1.0	0.76	ug/L			10/15/22 11:49	1
Styrene	ND		1.0	0.73	ug/L			10/15/22 11:49	1
Toluene	ND		1.0	0.51	ug/L			10/15/22 11:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/22 11:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		10/15/22 11:49	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/15/22 11:49	1
Dibromofluoromethane (Surr)	101		75 - 123		10/15/22 11:49	1
Toluene-d8 (Surr)	99		80 - 120		10/15/22 11:49	1

**Lab Sample ID: LCS 480-645606/5**  
**Matrix: Water**  
**Analysis Batch: 645606**

**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	25.2		ug/L		101	73 - 126
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	76 - 121
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	77 - 121
Benzene	25.0	26.0		ug/L		104	71 - 124
Chloromethane	25.0	26.1		ug/L		104	68 - 124
Ethylbenzene	25.0	25.8		ug/L		103	77 - 123
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	76 - 122
Naphthalene	25.0	24.6		ug/L		98	66 - 125
n-Butylbenzene	25.0	27.6		ug/L		111	71 - 128
N-Propylbenzene	25.0	26.7		ug/L		107	75 - 127
o-Xylene	25.0	25.1		ug/L		100	76 - 122
Styrene	25.0	25.0		ug/L		100	80 - 120
Toluene	25.0	25.8		ug/L		103	80 - 122
Xylenes, Total	50.0	50.8		ug/L		102	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	100		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: 180-145920-1

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

**Lab Sample ID: MB 480-645029/1-A**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 645029**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		10/12/22 09:00	10/13/22 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		24 - 146				10/12/22 09:00	10/13/22 21:19	1
2-Fluorobiphenyl	99		37 - 120				10/12/22 09:00	10/13/22 21:19	1
2-Fluorophenol (Surr)	49		10 - 120				10/12/22 09:00	10/13/22 21:19	1
Nitrobenzene-d5 (Surr)	73		26 - 120				10/12/22 09:00	10/13/22 21:19	1
Phenol-d5 (Surr)	33		11 - 120				10/12/22 09:00	10/13/22 21:19	1
p-Terphenyl-d14	101		64 - 127				10/12/22 09:00	10/13/22 21:19	1

**Lab Sample ID: LCS 480-645029/2-A**  
**Matrix: Water**  
**Analysis Batch: 645323**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 645029**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	16.0	13.5		ug/L		84	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	106		24 - 146				
2-Fluorobiphenyl	95		37 - 120				
2-Fluorophenol (Surr)	51		10 - 120				
Nitrobenzene-d5 (Surr)	79		26 - 120				
Phenol-d5 (Surr)	36		11 - 120				
p-Terphenyl-d14	94		64 - 127				

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-414851/1-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L		10/12/22 13:18	10/14/22 13:18	1
1,2-Dichlorobenzene	ND		1.0	0.095	ug/L		10/12/22 13:18	10/14/22 13:18	1
1,3-Dichlorobenzene	ND		1.0	0.099	ug/L		10/12/22 13:18	10/14/22 13:18	1
1,4-Dichlorobenzene	ND		1.0	0.061	ug/L		10/12/22 13:18	10/14/22 13:18	1
1-Methylnaphthalene	ND		0.19	0.056	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,3,4,6-Tetrachlorophenol	ND		1.0	0.33	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,3,5,6-Tetrachlorophenol	ND		1.0	0.51	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4,5-Trichlorophenol	ND		1.0	0.25	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4,6-Trichlorophenol	ND		1.0	0.22	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dichlorophenol	ND		0.19	0.051	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dimethylphenol	ND		1.0	0.17	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dinitrophenol	ND		10	1.5	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,4-Dinitrotoluene	ND		1.0	0.35	ug/L		10/12/22 13:18	10/14/22 13:18	1
2,6-Dinitrotoluene	ND		1.0	0.17	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Chloronaphthalene	ND		0.19	0.059	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Chlorophenol	ND		1.0	0.13	ug/L		10/12/22 13:18	10/14/22 13:18	1

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# QC Sample Results

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

Job ID: 180-145920-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-414851/1-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		0.19	0.062	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Methylphenol	ND		1.0	0.30	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Nitroaniline	ND		5.0	0.55	ug/L		10/12/22 13:18	10/14/22 13:18	1
2-Nitrophenol	ND		1.0	0.19	ug/L		10/12/22 13:18	10/14/22 13:18	1
3,3'-Dichlorobenzidine	ND		1.0	0.58	ug/L		10/12/22 13:18	10/14/22 13:18	1
3-Nitroaniline	ND		5.0	0.44	ug/L		10/12/22 13:18	10/14/22 13:18	1
4,6-Dinitro-2-methylphenol	ND		5.0	1.5	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Bromophenyl phenyl ether	ND		1.0	0.32	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Chloro-3-methylphenol	ND		1.0	0.28	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Chloroaniline	ND		1.0	0.38	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Chlorophenyl phenyl ether	ND		1.0	0.22	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Nitroaniline	ND		5.0	0.36	ug/L		10/12/22 13:18	10/14/22 13:18	1
4-Nitrophenol	ND		5.0	0.94	ug/L		10/12/22 13:18	10/14/22 13:18	1
Acenaphthene	ND		0.19	0.065	ug/L		10/12/22 13:18	10/14/22 13:18	1
Acenaphthylene	ND		0.19	0.065	ug/L		10/12/22 13:18	10/14/22 13:18	1
Anthracene	ND		0.19	0.049	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[a]anthracene	ND		0.19	0.075	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[b]fluoranthene	ND		0.19	0.097	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[g,h,i]perylene	ND		0.19	0.069	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzo[k]fluoranthene	ND		0.19	0.088	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzoic acid	ND		5.0	0.92	ug/L		10/12/22 13:18	10/14/22 13:18	1
Benzyl alcohol	ND		1.0	0.16	ug/L		10/12/22 13:18	10/14/22 13:18	1
Bis(2-chloroethoxy)methane	ND		1.0	0.15	ug/L		10/12/22 13:18	10/14/22 13:18	1
Bis(2-chloroethyl)ether	ND		0.19	0.040	ug/L		10/12/22 13:18	10/14/22 13:18	1
Bis(2-ethylhexyl) phthalate	ND		10	6.2	ug/L		10/12/22 13:18	10/14/22 13:18	1
bis(chloroisopropyl) ether	ND		0.19	0.058	ug/L		10/12/22 13:18	10/14/22 13:18	1
Butyl benzyl phthalate	ND		1.0	0.46	ug/L		10/12/22 13:18	10/14/22 13:18	1
Chrysene	ND		0.19	0.081	ug/L		10/12/22 13:18	10/14/22 13:18	1
Dibenz(a,h)anthracene	ND		0.19	0.072	ug/L		10/12/22 13:18	10/14/22 13:18	1
Dibenzofuran	ND		1.0	0.19	ug/L		10/12/22 13:18	10/14/22 13:18	1
Diethyl phthalate	ND		1.0	0.57	ug/L		10/12/22 13:18	10/14/22 13:18	1
Dimethyl phthalate	ND		1.0	0.20	ug/L		10/12/22 13:18	10/14/22 13:18	1
Di-n-butyl phthalate	ND		1.0	0.74	ug/L		10/12/22 13:18	10/14/22 13:18	1
Di-n-octyl phthalate	ND		1.0	0.69	ug/L		10/12/22 13:18	10/14/22 13:18	1
Fluoranthene	ND		0.19	0.060	ug/L		10/12/22 13:18	10/14/22 13:18	1
Fluorene	ND		0.19	0.069	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachlorobenzene	ND		0.19	0.056	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachlorobutadiene	ND		0.19	0.069	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachlorocyclopentadiene	ND		1.0	0.50	ug/L		10/12/22 13:18	10/14/22 13:18	1
Hexachloroethane	ND		1.0	0.13	ug/L		10/12/22 13:18	10/14/22 13:18	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.085	ug/L		10/12/22 13:18	10/14/22 13:18	1
Isophorone	ND		1.0	0.19	ug/L		10/12/22 13:18	10/14/22 13:18	1
Methylphenol, 3 & 4	ND		1.0	0.37	ug/L		10/12/22 13:18	10/14/22 13:18	1
Nitrobenzene	ND		2.0	0.50	ug/L		10/12/22 13:18	10/14/22 13:18	1
N-Nitrosodi-n-propylamine	ND		0.19	0.071	ug/L		10/12/22 13:18	10/14/22 13:18	1
N-Nitrosodiphenylamine	ND		1.0	0.12	ug/L		10/12/22 13:18	10/14/22 13:18	1
Phenanthrene	ND		0.19	0.055	ug/L		10/12/22 13:18	10/14/22 13:18	1
Phenol	ND		1.0	0.49	ug/L		10/12/22 13:18	10/14/22 13:18	1

Eurofins Pittsburgh

# QC Sample Results

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

Job ID: 180-145920-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-414851/1-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.19	0.054	ug/L		10/12/22 13:18	10/14/22 13:18	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		23 - 128				10/12/22 13:18	10/14/22 13:18	1
2-Fluorobiphenyl	90		20 - 105				10/12/22 13:18	10/14/22 13:18	1
2-Fluorophenol (Surr)	93		20 - 105				10/12/22 13:18	10/14/22 13:18	1
Nitrobenzene-d5 (Surr)	104		20 - 107				10/12/22 13:18	10/14/22 13:18	1
Phenol-d5 (Surr)	88		20 - 106				10/12/22 13:18	10/14/22 13:18	1
Terphenyl-d14 (Surr)	69		22 - 120				10/12/22 13:18	10/14/22 13:18	1

**Lab Sample ID: LCS 180-414851/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	15.3		ug/L		77	51 - 100
1,2-Dichlorobenzene	20.0	15.5		ug/L		77	51 - 100
1,3-Dichlorobenzene	20.0	15.7		ug/L		78	51 - 100
1,4-Dichlorobenzene	20.0	15.6		ug/L		78	52 - 100
1-Methylnaphthalene	20.0	15.2		ug/L		76	53 - 100
2,3,4,6-Tetrachlorophenol	20.0	15.5		ug/L		78	50 - 100
2,4,5-Trichlorophenol	20.0	16.9		ug/L		85	55 - 100
2,4,6-Trichlorophenol	20.0	17.3		ug/L		87	54 - 100
2,4-Dichlorophenol	20.0	16.0		ug/L		80	55 - 100
2,4-Dimethylphenol	20.0	16.3		ug/L		81	51 - 100
2,4-Dinitrophenol	40.0	28.3		ug/L		71	32 - 100
2,4-Dinitrotoluene	20.0	17.3		ug/L		86	56 - 100
2,6-Dinitrotoluene	20.0	17.2		ug/L		86	56 - 101
2-Chloronaphthalene	20.0	16.4		ug/L		82	52 - 100
2-Chlorophenol	20.0	16.0		ug/L		80	53 - 100
2-Methylnaphthalene	20.0	17.3		ug/L		86	53 - 100
2-Methylphenol	20.0	15.7		ug/L		79	51 - 100
2-Nitroaniline	20.0	18.7		ug/L		93	47 - 104
2-Nitrophenol	20.0	18.9		ug/L		94	56 - 100
3,3'-Dichlorobenzidine	20.0	14.5		ug/L		72	42 - 100
3-Nitroaniline	20.0	17.3		ug/L		87	54 - 100
4,6-Dinitro-2-methylphenol	40.0	32.7		ug/L		82	48 - 100
4-Bromophenyl phenyl ether	20.0	16.7		ug/L		83	50 - 100
4-Chloro-3-methylphenol	20.0	15.9		ug/L		79	47 - 105
4-Chloroaniline	20.0	15.0		ug/L		75	48 - 100
4-Chlorophenyl phenyl ether	20.0	15.7		ug/L		79	52 - 100
4-Nitroaniline	20.0	17.0		ug/L		85	54 - 100
4-Nitrophenol	40.0	33.2		ug/L		83	37 - 120
Acenaphthene	20.0	15.6		ug/L		78	51 - 100
Acenaphthylene	20.0	16.2		ug/L		81	54 - 100
Anthracene	20.0	16.3		ug/L		82	54 - 100
Benzo[a]anthracene	20.0	16.8		ug/L		84	52 - 100
Benzo[a]pyrene	20.0	16.4		ug/L		82	52 - 100

Eurofins Pittsburgh

# QC Sample Results

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

Job ID: 180-145920-1

## Method: EPA 8270E LL - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-414851/2-A**  
**Matrix: Water**  
**Analysis Batch: 415129**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 414851**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene	20.0	17.6		ug/L		88	50 - 100
Benzo[g,h,i]perylene	20.0	16.1		ug/L		81	53 - 100
Benzo[k]fluoranthene	20.0	16.3		ug/L		82	49 - 100
Benzoic acid	20.0	17.4		ug/L		87	31 - 122
Benzyl alcohol	20.0	15.6		ug/L		78	33 - 107
Bis(2-chloroethoxy)methane	20.0	14.8		ug/L		74	49 - 100
Bis(2-chloroethyl)ether	20.0	15.2		ug/L		76	46 - 100
Bis(2-ethylhexyl) phthalate	20.0	20.2		ug/L		101	52 - 101
bis(chloroisopropyl) ether	20.0	15.2		ug/L		76	29 - 102
Butyl benzyl phthalate	20.0	19.7		ug/L		99	52 - 100
Chrysene	20.0	15.5		ug/L		78	51 - 100
Dibenz(a,h)anthracene	20.0	16.6		ug/L		83	52 - 101
Dibenzofuran	20.0	15.3		ug/L		76	53 - 100
Diethyl phthalate	20.0	15.3		ug/L		77	52 - 100
Dimethyl phthalate	20.0	15.4		ug/L		77	55 - 100
Di-n-butyl phthalate	20.0	16.9		ug/L		85	57 - 100
Di-n-octyl phthalate	20.0	19.7		ug/L		98	41 - 100
Fluoranthene	20.0	15.8		ug/L		79	56 - 100
Fluorene	20.0	15.7		ug/L		78	53 - 100
Hexachlorobenzene	20.0	15.8		ug/L		79	46 - 100
Hexachlorobutadiene	20.0	15.7		ug/L		79	42 - 101
Hexachlorocyclopentadiene	20.0	19.6		ug/L		98	38 - 102
Hexachloroethane	20.0	16.1		ug/L		80	46 - 100
Indeno[1,2,3-cd]pyrene	20.0	16.7		ug/L		83	54 - 100
Isophorone	20.0	16.0		ug/L		80	50 - 100
Methylphenol, 3 & 4	20.0	15.2		ug/L		76	51 - 100
Nitrobenzene	20.0	18.3		ug/L		91	47 - 100
N-Nitrosodi-n-propylamine	20.0	16.5		ug/L		83	43 - 103
N-Nitrosodiphenylamine	20.0	17.8		ug/L		89	53 - 100
Phenanthrene	20.0	16.1		ug/L		81	53 - 100
Phenol	20.0	15.7		ug/L		78	49 - 100
Pyrene	20.0	18.0		ug/L		90	53 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		23 - 128
2-Fluorobiphenyl	79		20 - 105
2-Fluorophenol (Surr)	81		20 - 105
Nitrobenzene-d5 (Surr)	91		20 - 107
Phenol-d5 (Surr)	79		20 - 106
Terphenyl-d14 (Surr)	84		22 - 120



# QC Association Summary

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

Job ID: 180-145920-1

## GC/MS VOA

### Analysis Batch: 645606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145920-1	SUPE-M-099A-100522	Total/NA	Water	8260C	
180-145920-2	SUPE-W-28C-100522	Total/NA	Water	8260C	
180-145920-3	SUPE-W-04AR2-100522	Total/NA	Water	8260C	
180-145920-4	SUPE-EB2-100522	Total/NA	Water	8260C	
180-145920-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-645606/7	Method Blank	Total/NA	Water	8260C	
LCS 480-645606/5	Lab Control Sample	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 414851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145920-1	SUPE-M-099A-100522	Total/NA	Water	3520C	
180-145920-2	SUPE-W-28C-100522	Total/NA	Water	3520C	
180-145920-3	SUPE-W-04AR2-100522	Total/NA	Water	3520C	
180-145920-4	SUPE-EB2-100522	Total/NA	Water	3520C	
MB 180-414851/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-414851/2-A	Lab Control Sample	Total/NA	Water	3520C	

### Analysis Batch: 415129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-414851/1-A	Method Blank	Total/NA	Water	EPA 8270E LL	414851
LCS 180-414851/2-A	Lab Control Sample	Total/NA	Water	EPA 8270E LL	414851

### Analysis Batch: 415201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145920-1	SUPE-M-099A-100522	Total/NA	Water	EPA 8270E LL	414851
180-145920-2	SUPE-W-28C-100522	Total/NA	Water	EPA 8270E LL	414851
180-145920-3	SUPE-W-04AR2-100522	Total/NA	Water	EPA 8270E LL	414851
180-145920-4	SUPE-EB2-100522	Total/NA	Water	EPA 8270E LL	414851

### Prep Batch: 645029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145920-1	SUPE-M-099A-100522	Total/NA	Water	3510C	
180-145920-2	SUPE-W-28C-100522	Total/NA	Water	3510C	
180-145920-3	SUPE-W-04AR2-100522	Total/NA	Water	3510C	
180-145920-4	SUPE-EB2-100522	Total/NA	Water	3510C	
MB 480-645029/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-645029/2-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 645323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145920-1	SUPE-M-099A-100522	Total/NA	Water	8270D LL	645029
180-145920-2	SUPE-W-28C-100522	Total/NA	Water	8270D LL	645029
180-145920-3	SUPE-W-04AR2-100522	Total/NA	Water	8270D LL	645029
180-145920-4	SUPE-EB2-100522	Total/NA	Water	8270D LL	645029
MB 480-645029/1-A	Method Blank	Total/NA	Water	8270D LL	645029
LCS 480-645029/2-A	Lab Control Sample	Total/NA	Water	8270D LL	645029



Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502015



TestAmerica Duluth SC  
269

Client: Beazer East, Inc.  
Contact: mferrick.2006@f-ts.com

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

Project Name: Superior, WI - 2022 OM&M Program  
Project Number: OM-0556-22  
Laboratory: TACHI  
Shipment Method: Courier  
Program: Superior 2022 2SA Sampling\_001

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Notes:									
						None									
10/05/2022	1300	GW	SUPE-M-099A-100522	8270D_SVOC (less naphtha) (Chicago)	None										
10/05/2022	1751	GW	SUPE-W-28C-100522	2	2										
10/05/2022	1925	GW	SUPE-W-04AR2-100522	2	2										
10/05/2022	1945	GW	SUPE-EB2-100522	2	2										



180-1 45920 Chain of Custody

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Melissa Gascon</i> Printed Name: Melissa Gascon Firm: Euroferio	Signature: <i>Marie Ferrick</i> Printed Name: Marie Ferrick Firm: FTS	Signature: <i>Melissa Gascon</i> Printed Name: Melissa Gascon Firm: Euroferio	<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard
Date/Time: 10/05/2022 1957	Date/Time: 10/7/22 0800	Date/Time: 10/5/22 1500	Date/Time: 10/8/22 900	





Ref 210311

# CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502016



TestAmerica Duluth SC 269

Project Name Superior, WI - 2022 OM&M Program  
 Project Number: OM-0556-22  
 Laboratory: TABUF  
 Shipment Method Courier  
 Program: Superior 2022 2SA Sampling\_001

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

Client: Beazer East, Inc.  
 Contact: mferrick.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:
					None	HCL		
10/05/2022	1300	GW	SUPE-M-099A-100522		None	HCL	5	
10/05/2022	1751	GW	SUPE-W-28C-100522		None	HCL	5	
10/05/2022	1925	GW	SUPE-W-04AR2-100522		None	HCL	5	
10/05/2022	1945	GW	SUPE-EB2-100522		None	HCL	5	

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Mona Ferrick</i> Printed Name: Mona Ferrick Firm: FTS Date/Time: 10/05/2022 1958	Signature: <i>Melissa Gascon</i> Printed Name: Melissa Gascon Firm: Eurofins Date/Time: 10/7/22 0800	Signature: <i>Melissa Gascon</i> Printed Name: Melissa Gascon Firm: Eurofins Date/Time: 10/3/22 1510	Signature: Printed Name: Firm: Date/Time:	<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard



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10.08

ORIGIN ID:DLHA (7.5) 394-3674

TESTAMERICA DULUTH SVC  
63 E 2ND ST STE 100

SUPERIOR, WI 54880  
UNITED STATES US

SHIP DATE: 07OCT22  
ACTWGT: 70.15 LB MAN  
CAD: 0669741/CAFE3612

BILL RECEIPT

TO **CARRIE GAMBER**  
**EUROFINS TESTAMERICA - PITTSBURGH**  
**301 ALPHA DR**

577CL/ACSF/482A

**PITTSBURGH PA 15238**

(318) 490-4780

REF: FTS/KOPPERS



**FedEx**  
Express



J222022032801UY

TRK# 4546 9355 9386  
0201

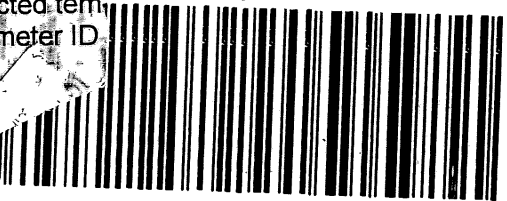
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**PRIORITY OVERNIGHT**

**XO AGCA**

**15238**  
**PA-US PIT**

Uncorrected tem  
Thermometer ID

CF -  
PT-WI-F



180-145920 Waybill

10.08

ORIGIN ID:DLHA (7.5) 394-3674

TESTAMERICA DULUTH SVC  
63 E 2ND ST STE 100

SUPERIOR, WI 54880  
UNITED STATES US

SHIP DATE: 07OCT22  
ACTWGT: 70.15 LB MAN  
CAD: 0669741/CAFE3612

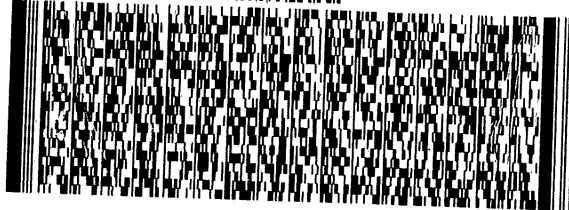
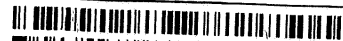
BILL RECEIPT

TO: **CARRIE GAMBER**  
**EUROFINS TESTAMERICA - PITTSBURGH**  
**301 ALPHA DR**

**PITTSBURGH PA 15238**

(318) 490-4780

REF: FTS/KOPPERS



**FedEx**  
Express



J22202032801 0V

TRK# 4546 9355 9386  
0201

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

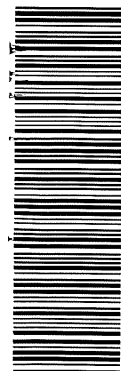
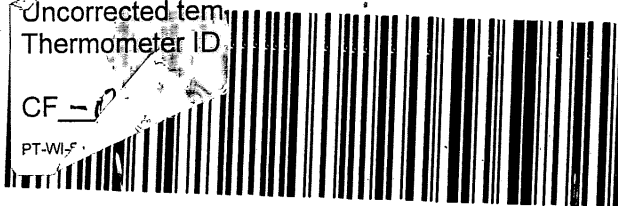
**XO AGCA**

**15238**  
PA-US **PIT**

Uncorrected tem  
Thermometer ID

CF - 1

PT-W-F



180-145920 Waybill

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- 13

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Brown, Shali	Lab PM: Brown, Shali	Carrier Tracking No(s): 180-471267.1	COC No: 180-471267.1
Client Contact: Shipping/Receiving		Phone:	E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 180-145920-1	Job #: 180-145920-1
Address: 10 Hazelwood Drive, Amherst NY, 14228-2298		Due Date Requested: 10/31/2022		Preservation Codes:	
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Superior, WI Semiannual Groundwater		Project #: 18015916		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Site: SSOW#:		Field Filtered Sample (Yes or No)		Total Number of containers	
<b>Sample Identification - Client ID (Lab ID)</b>		Perform M/MSD (Yes or No)		Special Instructions/Note:	
SUPE-M-099A-100522 (180-145920-1)	Sample Date: 10/5/22	Sample Time: 13:00 Central	X	X	5 Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-28C-100522 (180-145920-2)	10/5/22	17:51 Central	X	X	5 Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-100522 (180-145920-3)	10/5/22	19:25 Central	X	X	5 Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB2-100522 (180-145920-4)	10/5/22	19:45 Central	X	X	5 Refer to PT-PM-WI-006 for Wisconsin Protocol
TRIP BLANK (180-145920-5)	10/5/22	Central	X	X	2 Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

**Possible Hazard Identification**

Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: 10-11-22 1000 Company: TAB  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  
 Cooler Temperature(s) °C and Other Remarks: 20-21°C



## Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-145920-1

**Login Number: 145920**

**List Number: 1**

**Creator: Abernathy, Eric L**

**List Source: Eurofins Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
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.	N/A	
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.	N/A	



# Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 180-145920-1

**Login Number: 145920**

**List Number: 2**

**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

**List Creation: 10/11/22 12:34 PM**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 2.1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	





# APPENDIX F

## ASCII DATA

